Samsung GALAXY S 4

S C H - R 9 7 0

A N D R O I D S M A R T P H O N E

User Manual
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Section 1: Getting Started

This section allows you to quickly start using your Samsung SCH-R970 phone by installing the SIM and microSD cards, installing and charging the battery, activating your service, and setting up your voicemail account.

Understanding this User Manual

The sections of this manual generally follow the features of your phone. A robust index for features begins on page 236.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 199.

This manual gives navigation instructions according to the default display settings. If you select other settings, navigation steps may be different.

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the phone or keypad. (For more information, refer to *"Securing Your Phone"* on page 19.)

Note: Instructions in this manual are based on default settings, and may vary from your phone, depending on the software version on your phone, and any changes to the phone's Settings.

Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your phone and any changes to the phone's Settings.

Special Text

In this manual, you'll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes**: Presents alternative options for the current feature, menu, or sub-menu.
- **Tips**: Provides quick or innovative methods, or useful shortcuts.
- **Example**: Gives an example of the feature or procedure.
- **Important**: Points out important information about the current feature that could affect performance.
- **Warning**: Brings to your attention important information to prevent loss of data or functionality, or even prevent damage to your phone.

Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following text conventions are used to represent often-used steps:

→ Arrows are used to represent the sequence of selecting successive options in longer, or repetitive, procedures.

Example: "Press **Home**, then touch **Menu** → **Settings** → **Connections** → **Wi-Fi**."

Setting Up Your Phone

Before using your phone, you need to install the SIM card, the microSD™ card, and the battery into their respective internal slots and compartment.

Important! Before removing or replacing the battery cover, make sure the phone is switched off. To turn the phone off, hold down the power key until the power-off image displays, then touch **Power off**.

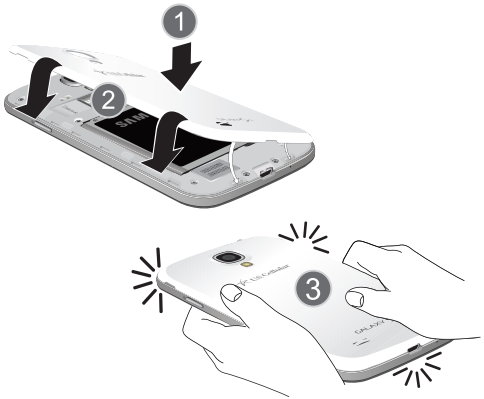
Removing the battery cover

1. Locate the cover removal opening (1).
2. Place your fingernail in the opening and pry the cover away from the device (2).

Caution! Do not bend or twist the back cover excessively. Doing so may damage the cover.

Installing the battery cover

- Align the cover (1) and press it firmly into place (2), making sure it snaps into place at the corners.



Installing the SIM Card

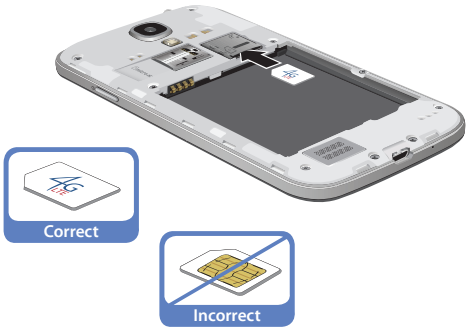
When you subscribe to a 4G LTE cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, available optional services, and many others features. This SIM card will only work with this device.

Important! The SIM card must be installed for your phone to establish a network connection.

The plug-in SIM card information and its contacts can be easily damaged by scratching or bending, so be careful when handling, inserting, or removing the card. Keep all SIM cards out of reach of small children.

---

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
2. Locate the SIM card slot on the top inside of the phone.
3. Make sure the gold contacts of the SIM card face downward and that the notched corner of the card faces towad the slot to the left (as shown).
4. Carefully slide the SIM card into the SIM card socket (as shown) until the card locks into place.



Note: If the SIM card is not inserted correctly, the phone cannot make a network connection.

Once the SIM card is inserted, do not remove it.

If your SIM card is ever separated from the device or damaged, your device will not function. If you experience any issues with your device, contact Customer Service at 888-944-9400 or visit your nearest U.S. Cellular® retail location.

SIM Card Limited Warranty

Subject to the exclusions contained below, United States Cellular Corporation ("U.S. Cellular") warrants to the original purchaser ("You" or "Your") of the handset with which the SIM card was provided that the SIM card will be free from defects in material and workmanship for a period of one (1) year from the date You purchased the handset (the "Warranty Period"). This warranty is not transferable. Should a defect appear during the Warranty Period, U.S. Cellular will send a replacement SIM card to Your address within the United States without charge provided that you request the replacement SIM card during or within thirty (30) days following the Warranty Period by calling U.S. Cellular Customer Service at 888-944-9400 (or dialing 611 on Your U.S. Cellular handset) or by visiting a U.S. Cellular retail store.

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Removing the SIM Card

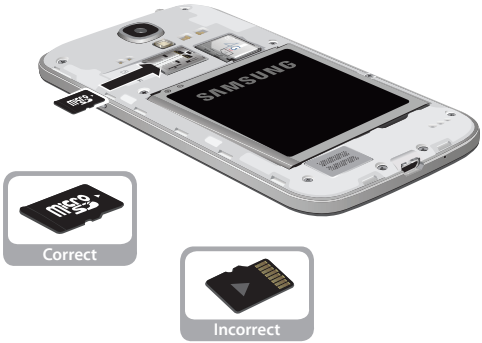
1. Remove the battery cover.
2. Remove the battery.
3. Press the card into the slot and carefully release it. The card should pop partially out of the slot.
4. Remove the card from the slot.
5. Replace the battery and the battery cover.

Installing a Memory Card

Your device lets you install an optional microSD™ (SD) or microSDHC™ memory card to expand available memory to store images, videos, music, applications, and data.

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
2. Locate the microSD card slot on the top inside of the phone.
3. With the gold contacts facing down, carefully slide the memory card into the slot (as shown), pushing gently until it clicks into place.

Important! Be sure to align the gold contact pins on the memory card with the phone's contacts.



Removing a Memory Card

Important! To prevent damage to information stored on the memory card, unmount the card before removing it from the phone.

1. Press **Home**, then touch **Menu** → **Settings**. The **Settings** screen appears.
2. Touch the **More** tab. The **More** screen appears.
3. Under **Device manager**, touch **Storage** → **Unmount SD card**.
4. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
5. Press the Memory card into the slot and carefully release it. The card should pop partially out of the slot.
6. Remove the card from the slot.
7. Replace the battery cover. (For more information, refer to *"Installing the battery cover"* on page 7.)

Battery

Your phone is powered by a rechargeable, standard Li-Ion battery. A Wall/USB Charger (Charging Head and USB cable) is included with the phone, for charging the battery.

Note: The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4 hours of charge time.

After the first charge, you can use the phone while charging.

Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.

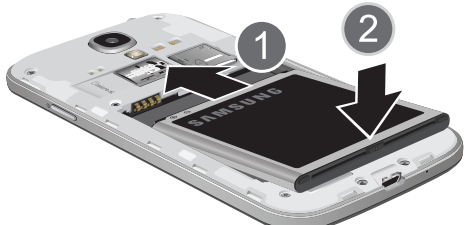
Note: Failure to unplug the wall charger before you remove the battery, can cause damage to the phone.

Battery Indicator

The battery icon in the Annunciator Line shows battery power level. Two to three minutes before the battery becomes too low to operate your phone, the empty battery icon will flash and a tone will sound. If you continue to operate the phone without charging the battery, the phone will power off.

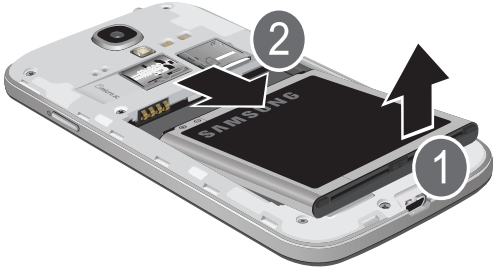
Installing the Battery

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
2. Slide the battery into the compartment (1) so that the tabs on the end align with the slots at the bottom of the phone, making sure the connectors align.
3. Gently press down to secure the battery (2).



Removing the Battery

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
2. Lift the battery up by the slot provided (1).



3. Lift the battery up and out of the phone (2).

Charging the Battery

Your phone is powered by a rechargeable Li-ion battery. A wall charger, which is used for charging the battery, is included with your phone. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Before using your phone for the first time, you must fully charge the battery. A discharged battery recharges fully in approximately 4 hours.

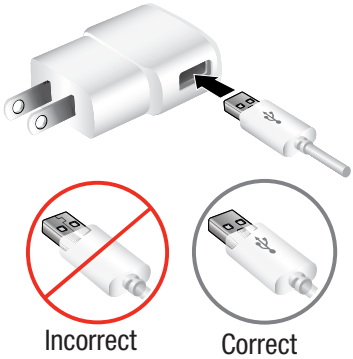
Note: Verify that the battery is installed prior to connecting the wall charger. If both the wall charger is connected and the battery is not installed, the handset will power cycle continuously and prevent proper operation. Failure to unplug the wall charger before you remove the battery, can cause the phone to become damaged.

Important! It is recommended you fully charge the battery before using your device for the first time.

1. Insert the USB cable into the device's Charger/ Accessory jack at the bottom of the device.

Note: This illustration displays both the **correct** and **incorrect** orientation for connecting the USB cable. If the USB cable is incorrectly connected, damage to the accessory port will occur therefore voiding the phone's warranty.

2. Connect the USB cable to the charging head.



3. Plug the charging head into a standard AC power outlet. The device turns on with the screen locked and indicates both its charge state and percent of charge.

Warning! While the device is charging, if the touch screen does not function due to an unstable power supply unplug the USB power adapter from the power outlet or unplug the USB cable from the device.

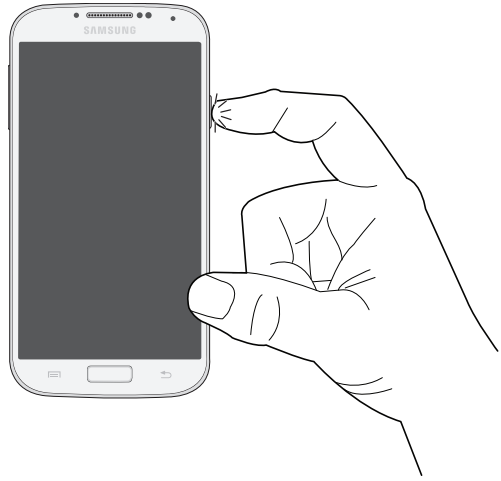
4. When charging is finished, first unplug the charger's power plug from the AC wall outlet, then disconnect the USB cable connector from the device.

Important! If your handset has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. (For more information, refer to *"Standard Limited Warranty"* on page 223.)

Turning Your Phone On

- Press and hold the **Power/Lock** key (on the upper right side of the phone) for three seconds.

  While powering on, the phone connects with the network, then displays the Locked screen and any active Notification alerts.

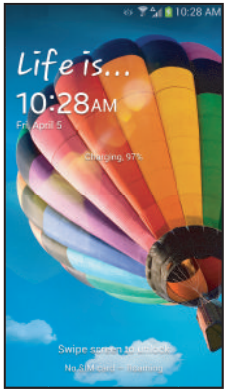


Note: Your phone's internal antenna is located along the bottom back of the phone. Do not block the antenna; doing so may affect call quality or cause the phone to operate at a higher power level than necessary.

Unlocking Your Phone

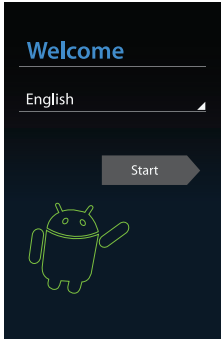
1. If needed, press Press **Home** to wake the screen.
2. If there are no Notification alerts (such as for calls or messages) on your phone, swipe across the lower half of the screen to unlock it.

   The Home screen appears.



Note: If you have purchased your phone online, the first time you power your phone on and unlock the screen, the Activation Wizard **Welcome** screen appears.

Follow the prompts to activate and set-up your phone.



Turning Your Phone Off

1. Press and hold the **Power/Lock Key** (on the upper right side of the device) for two seconds.
2. At the prompt, touch **Power off**. The **Power off** pop-up appears.
3. At the prompt, touch **OK**.

TTY Mode

Your phone is fully TTY-compatible, allowing you to connect a TTY device to the phone's headset jack. Before you can use your phone with a TTY device, you'll need to enable TTY Mode.

(For more information, refer to *"Other call settings"* on page 74.)

Voicemail

All unanswered calls to your phone are sent to voicemail, even if your phone is turned off, so you'll want to set up your voicemail and personal greeting as soon as you activate your phone.

Setting up Voicemail

1. Press **Home**, then touch **Phone**, then touch and hold 1.
2. Follow the automated instructions to set up your new password and record a greeting.

Checking Voicemail

1. Press **Home**, then touch **Phone**, then touch and hold 1.
2. Follow the automated instructions to manage voicemail.

Tip: You can also access **Voicemail** by dialing your phone number from any touch-tone phone.

Displaying Your Phone Number

1. Press **Home**, then touch **Menu** → **Settings**. The **Settings** screen appears.
2. Touch the More **More** tab. The **More** screen appears.
3. Under **Device manager**, touch **About device** → **Status**. Your phone number displays under **My phone number**.

Your Google™ Account

Your new phone uses your Google account to fully utilize its Android features, including Gmail, Google Maps, Google Talk, and the Google™ Play. When you turn on your phone for the first time, you should set up a connection with your existing Google account, or create a new Google account.

1. Press **Home**, then touch **Applications** ➔ **Gmail**.

   The **Add a Google Account** screen displays.
2. Touch **Existing** or **New** to continue.
3. Follow the on-screen instructions to sign in if you already have a Google account, or to create a Google Account.

Resetting your Google Account Password

A Google account password is required for Google applications. If you misplace or forget your Google Account password, follow these instructions to reset it:

1. From your computer, use an Internet browser to navigate to http://google.com/accounts.
2. Once the Web Page loads, click on the **Can't access your account?** link.
3. Under **Forgot your password?**, follow the password reset prompts.

Creating a Samsung Account

An active Samsung account is required to use applications such as Group Play, Samsung Hub, and WatchON.

1. From the Home screen, touch **Menu** → **Settings**. The **Settings** screen appears in the display.
2. Touch the Accounts **Accounts** tab. The **Accounts** screen appears in the display.
3. Under **My accounts**, touch **Add account**.
4. From the **Add account** screen, touch **Samsung account**.
5. From the **Samsung account** screen, touch **Create new account** and follow the on-screen instructions to create a Samsung account.
6. Read the Terms and conditions, then touch the **I accept all the terms above** check box.
7. Touch **Agree**.
8. Enter the required information and touch **Sign up**.
9. At the Welcome screen, touch **Next**.
10. Follow the on-screen instructions to verify your email address and activate your account.

Roaming

When you travel outside your home network's coverage area, your phone can roam to acquire service on other compatible digital networks. When Roaming is active, the Roaming icon ( ) appears in the Annunciator Line (Notification Bar) of the display.

Tip: You can set your phone's roaming behavior. (For more information, refer to *"Mobile networks"* on page 148.)

During roaming, some services may not be available. Depending on your coverage area and service plan, extra charges may apply when making or receiving calls.

Note: Contact your Wireless Provider for more information about your coverage area and service plan.

Securing Your Phone

By default, the phone locks automatically when the screen times out, or you can lock it manually. You can unlock the phone using one of the default Unlock screens, or for increased security, use a personal screen unlock pattern, a Personal Identification Number (PIN), or a password.

(For more information about creating and enabling a Screen unlock pattern, see *"Lock screen"* on page 155.)

Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

Locking the phone manually

- Press the **Power/Lock** key on the top right side of the phone.

Unlocking the phone

(For information on unlocking your phone, see *"Unlocking Your Phone"* on page 15.)

Unlocking with a Personal Screen Unlock Pattern

1. Press **Home** to wake the screen.
2. Draw your personal unlock pattern on the screen.

(For more information, refer to *"Lock screen"* on page 155.)

Unlocking with a Password

1. Press **Home** to wake the screen.
2. Enter your Password.
3. Press **OK**.

Section 2: Understanding Your Phone

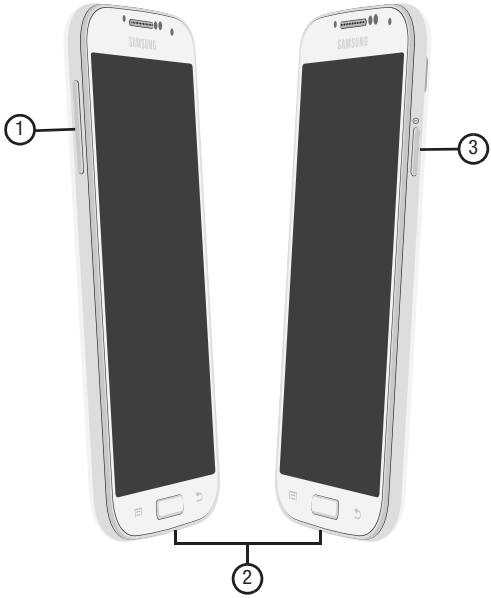
Features

- 5.0-inch 1920x1080 Super AMOLED Full HD touch screen
- CDMA 1X/EV-DO Rev-A /LTE Wireless Technology
- 1.9 gigahertz quad-core processor with 16 or 32 GB memory and 2 GB RAM
- Android® 4.2 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Connections
  - Wi-Fi 802.11 a/b/g/n (2.4 and 5 GHz bands)
  - Portable Wi-Fi Hotspot
  - Bluetooth 4.0
  - Tethering
  - VPN
  - NFC
  - Android Beam
  - S Beam
  - Wi-Fi Direct
  - Group Play
  - DLNA
  - USB 2.0
- Messaging Services
  - Text Messaging
  - Picture Messaging
  - Video Messaging
  - Voice Messaging
  - Email
  - Mobile Instant Messenger (IM)
  - Chat
- 13 Megapixel Camera-Camcorder with LED flash + 2 Megapixel Front Camera-Camcorder
- Picture Gallery
- Video Player (1080p — MP4 and 3GP)
- DivX Certified® to play DivX® video up to HD 1080p, including premium content
- Music Player (AAC, AAC+, eAAC+, MP3, and WMA)
- Speakerphone
- Support for microSD™ and microSDHC™ Memory Cards up to 64GB capacity

Front View

1. **Earpiece**: Use during calls to listen to callers.
2. **LED Indicator**: Flashes or glows to alert you to alert notifications or phone status.
3. **Menu Key**: Press to display options for the current screen.
4. **Microphone**: Use during calls to allow callers to hear your voice, and when recording.
5. **Home Key**: Press to display the Home screen, or Lock screen if the phone is locked. Press and hold to display recent applications or to launch Task Manager.
6. **Back Key**: Press to return to the previous screen or option.
7. **2 Megapixel Front Camera**: Use for taking pictures and recording video.
8. **Proximity and Light Sensors**: Detect the presence of nearby objects to control device functions or blank the screen display, such as when you hold the phone to your ear during a phone call. Detect ambient light to determine screen brightness when **Brightness** is set to **Automatic brightness** (see *"Brightness"* on page 158), and when taking pictures with the Front camera.

Side Views



1. **Volume Key**: From the Home screen, touch to adjust Master Volume. During calls or music playback, press to adjust volume. Press to mute the ringtone of an incoming call.
2. **USB Power/Accessory Port**: Connect a USB cable for charging or to sync music and files.
3. **Power/Lock Key**: Press and hold to turn the phone on or off. Press to lock the phone, or to wake the screen for unlocking.

Back View

1. **Noise cancelation microphone**: Captures background noise that the phone uses to produce a quiet background during calls and video chats.
2. **13 Megapixel Camera Lens**: Use when taking photos or recording videos.
3. **Camera Flash**: Use when taking photos.
4. **External Speaker**: Play ringtones, call audio when in Speakerphone mode, media sounds (music and video), and other sounds.
5. **3.5mm Headset Jack**: Plug in an optional headset or TTY equipment.

Navigation

Navigate your phone's features using the command keys and the touch screen.

Warning! Please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty.(For more information, see *"Warranty Information"* on page 223.)

Context-sensitive Menus

While using your phone, context-sensitive menus offer options for the feature or screen currently in use.

To access context-sensitive menus:

- Touch **Menu**.
- Touch and hold on an item.

Command Keys

Menu Key

Touch **Menu** to display a context-sensitive menu of options for the current screen or feature.

Home Key

Press the **Home Key** to display the Home screen.

Press and hold the **Home Key** to launch a menu of recent applications, or to launch Task Manager.

Back Key

Touch **Back** to return to the previous screen, option or step.

Motions

Your phone recognizes motion, to allow you to navigate and access features by moving the phone in specific patterns.

To use motions to control your phone, enable the **Motion** settings. (For more information, see *"Motions and gestures"* on page 177.)

Finger Motions

Touch

Touch items to select or launch them. For example:

- Touch the on-screen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app's icon to launch the application.
- **Double tap to top**: When this option is set to On, a double tap on the top of the phone takes you to the top of a list.

Touch and Hold

Activate on-screen items by a touch and hold gesture. For example:

- Touch and hold a widget or icon on the Home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Swipe

Swipe your finger vertically or horizontally across the screen. For example:

- Unlocking the screen
- Scrolling the Home screen or a menu
- Combine touch and hold with swipe to drag an item to a new location.

Pinch

Using two fingers, make a pinch motion on the screen. For example:

- Pinch in to zoom in on pictures or screens.
- Pinch out to zoom out on pictures or screens.

Phone Motions

- **Direct call**: When this option is set to On, you can lift the phone to your ear to call a contact displayed in a Messaging, Contacts, or Call Log screen.
- **Smart alert**: When this option is set to On, you can lift the phone to be automatically notified of missed calls, messages, and alerts that occurred while the phone was stationary.
- **Shake to update**: When this option is set to On, shaking the phone causes Bluetooth or Wi-Fi screens to scan for devices.
- **Turn over to mute/pause**: When this option is set to On, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

Tilt

- **Tilt to zoom**: When this option is set to On, touching and holding with your thumbs on the screen while in Gallery or Internet, then tilting the phone forward and back causes the screen to zoom in or out.

Pan

- **Pan to move icon**: When this option is set to On, touching and holding on the screen, then moving the phone in a side-to-side motion, moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images**: When this option is set to On, moving the phone in a panning motion while viewing an image moves focus around in the image.

Hand motions

Use your hand to swipe across the screen, or cover the screen.

- **Palm swipe to capture**: When this option is set to On, swiping the screen with the side of your hand (left to right, or right to left) captures a screen shot.
- **Palm touch to mute/pause**: When this option is set to On, covering the screen with your hand mutes or pauses media playback.

Using Multi Window

This feature allows you to run multiple applications on the current screen at the same time.

Note: Only applications found within the Multi window tray can be active atop another current application on the screen.

When launching applications that contain multimedia files (music/video), audio from both files will be played simultaneously.

Activating and Deactivating Multi window

To activate Multi window:

1. Touch and hold **Back**. The Multi window tray appears briefly (by default) on the left side of the screen, then closes, leaving only the Multi window tab showing.
2. Touch the tab to open the Multi window tray, showing some of the available Multi window apps.
3. Swipe the tray upwards to show more Multi window apps.

To deactivate Multi window:

- With the Multi window tab showing, touch and hold **Back**. This action hides the Multi window tab from view.

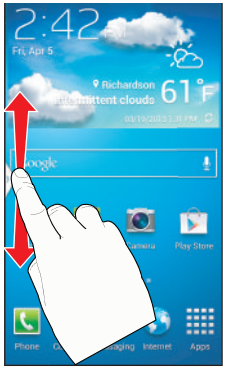
Repositioning the Multi Window

The Multi window contains two components: tab and apps tray. The tab can be manually moved across the screen. The apps tray (containing the scrollable apps) can be relocated to launch from any side of the screen (top, bottom, left, or right).

To move the tab:

1. Activate the Multi window feature. (See *"To activate Multi window:"* on page 27.)
2. In a single motion, touch and hold the tab for approximately one-second, then slowly drag it to its new location **along the current** screen edge.

Note: This is a quick way to get the tab out of the way if you can't get to a button or option behind it.



To relocate the Multi window tray:

1. Activate the Multi window feature. (See *"To activate Multi window:"* on page 27.)
2. Touch the tab to display the apps tray (containing the scrollable apps).

Note: Notice that when the apps are visible, the tab turns a dark grey. Its only in this state that the entire panel can be relocated.

3. In a single motion, touch and hold the Multi window tab > for approximately one-second to detach it from the screen (1), then slowly drag it to its new location **along any other** available screen edge (2). You can move it to the top, bottom, or either side.

Customizing the Multi Window tray

The applications found within the Multi window tray can be organized by either being rearranged or removed.

To rearrange the Multi window applications:

1. Activate the Multi window feature.
2. Touch the tab to display the apps tray (containing the scrollable apps).
3. In a single motion, touch and hold a desired app until it detaches from the tray, then carefully drag it to a new location in the list of apps. Lift your finger or stylus off the screen to let go of the app and drop it into its new location.

To remove a Multi window application:

1. Activate the Multi window feature.
2. Touch the tab to display the Multi window tray (containing the scrollable apps).
3. Touch **Edit** (located at the bottom of the list).
4. Follow the prompt to remove apps from the Multi window tray to the revealed staging area.
5. Tap **Done** once you have completed the removal process.

To restore a Multi window application:

1. Activate the Multi window feature.
2. Tap the tab to display the apps panel (containing the scrollable apps).
3. Tap the **Edit** button (located at the bottom of the list) to reveal the staging area containing any previously removed apps.
4. Locate the desired application.
5. In a single motion, touch and hold a desired app until it detaches from the staging area, then carefully drag it to a new location in the current list of apps.

Using Multi Window to run multiple apps on the same screen

Any of the apps found within the Multi window panel can be run at the same time as a current on-screen app.

Once multiple apps are running on the same screen, you can then choose to either swap their positions or maximize a desired app.

Note: Only applications found within the Multi-window panel can be active atop another current application on the screen.

When launching applications that contain multimedia files (music/video), audio from both files will be played simultaneously.

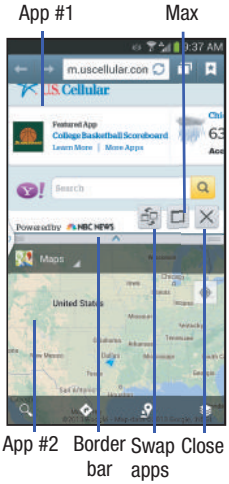
In this example we will be launching both the Internet and Maps applications.

1. Launch an application, such as Internet.
   - From the Home screen, touch **Internet**.
2. Activate the Multi window feature. (See *"To activate Multi window:"* on page 27.)
3. Touch the Multi window tab to display the apps tray.
4. Touch and hold the desired app, such as **Maps**, until it detaches from the tray.
5. In a single motion, drag the app over the current app and drop the new Multi window app over either the top or bottom area of the current on-screen app.

Note: Once two applications are running, the device displays a split screen view containing both the initial app and the new Multi window app. Each application is still independent of the other.

To swap the locations of the applications:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch **Swap apps**. The current apps swap places.



To increase the size of a desired application window:

- With the two applications shown in a split screen, touch and hold the Border bar, then drag it to resize the desired window.

To seperate the current applications:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch **Maximize apps**. The current apps are the both maximized.

To close an application:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch **Close app**. The current apps swap places.

Notifications

Notifications shows information about connections, alerts and other items.

1. Touch and drag downward from the top of the screen to display notifications.
2. Touch an item to open that item, or to launch a related app or feature.
3. Touch **Clear** to clear all Notifications.

Quick Settings Menu

Use Quick Settings toggles at the top of Notifications to control popular settings. Slide your finger right and left across the Quick Settings menu to see all of the toggles.

- **Wi-Fi**: Turn Wi-Fi On or Off. (For more information about using Wi-Fi, see *"Wi-Fi"* on page 126.)
- **GPS**: Turn Standalone GPS services on or off. (For more information, see *"Location services"* on page 191.)
- **Sound**: Touch to switch between your sound settings, and the two Silent modes, Mute and Vibrate. (For more information, see *"Volume"* on page 161.)
- **Screen rotation**: Enable or disable the Auto rotation setting, to control whether the screen automatically updates when you rotate the phone. (See *"Auto-rotate screen"* on page 158.)
- **Bluetooth**: Turn Bluetooth On or Off. (For more information about using Bluetooth, see *"Bluetooth"* on page 128.)
- **Mobile data**: Activate or deactivate your phone's access to mobile data. (For more information, see *"Mobile networks"* on page 148.)

- **Blocking mode**: Enable or disable the Blocking mode setting, to control which notifications you receive. (For more information, refer to *"Blocking mode"* on page 165.)
- **Power saving**: Enable or disable Power saving mode. (For more information, see *"Power saving mode"* on page 166.)
- **Screen Mirroring**: Enable or disable Screen Mirroring to other devices. (For more information, refer to *"Screen Mirroring"* on page 136.)
- **Multi window**: Enable or disable Multi window mode. (For more information, refer to *"Using Multi Window"* on page 27.)
- **S Beam**: Enable or disable sharing apps content using S Beam. (For more information, refer to *"S Beam"* on page 135.)
- **NFC**: Enable or disable NFC interface. (.)
- **Air view**: Enable or disable
- **Air gesture**: Enable or disable
- **Driving mode**: Enable or disable
- **Smart stay**: Enable or disable
- **Smart scroll**: Enable or disable
- **Sync**: Enable or disable synchronization with your accounts.
- **Airplane mode**: Enable or disable

Clearing Notifications

1. Sweep your finger downward from the top of the screen to display Notifications.
2. Touch a notification to clear it, or to launch an app.

   – or –

   Touch **Clear** to clear all notifications

Home Screen

The Home screen is the starting point for using your phone.

Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your phone and any changes to the phone's Settings.

1. **Status Bar**: Presents icons to show network status, battery power, and connection details. (For a list of icons, see *"Status Bar Icons"* on page 35.)
2. **Multi window tab**: Access Multi window tray. (See *"Using Multi Window"* on page 27.)
3. **Home screen**: The starting point for using your phone. Place shortcut icons, widgets, and other items to customize your phone to your needs. (For more information, see *"Home Screen"* on page 34.)
4. **Primary Shortcuts**: Shortcuts to your phone's common apps. (For more information, see *"Primary Shortcuts"* on page 38.)
5. **Panel Indicator**: Shows what panel of a maximum of 7 available Home screen panels appears in the display.
6. **Shortcuts**: Shortcuts to common apps.These shortcuts are found on the Home screen by default, and you can add more shortcuts to your favorite apps. (For more information, see *"Shortcuts"* on page 38.)
7. **Widgets**: Apps that run on the Home screen. These widgets are found on the Home screen by default. (For more information, see *"Widgets"* on page 39.)

Status Bar Icons

The Status Bar shows network and battery status and other details.

Airplane Mode Active: All wireless communications are disabled. (See *"Airplane mode"* on page 147.)

USB Connected: The phone is connected to a computer using a USB cable.

Voice Call: A voice call is in progress.

Speakerphone: Speakerphone is enabled.

Missed Call: Displays when there is a missed call.

Mute: Voice or playback volume is muted.

Battery Level: Shown fully charged.

Battery Charging: Battery is charging.

Device Power Critical: Battery has very little power remaining. Charge immediately.

GPS Location Active: One or more GPS location services are active. (See *"Location services"* on page 191.)

No SIM: No LTE SIM is installed.

Smart stay Active: Smart stay setting is ON. The screen stays lighted while you look at it.

No Network: No wireless network is available.

3G connection: Phone is active on a 3G system.

4G LTE Connection: Phone is active on a 4G LTE system.

Signal Strength: Current signal strength. The greater the number of bars, the stronger the signal.

New Message: You have new message(s).

New Voicemail: You have new voicemail. A number indicates the number of new messages.

New Email Message: You have new email.

Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active. (See *"Volume"* on page 161.)

Vibrate: All sounds are silenced, and Vibrate is active. See *"Vibrations"* on page 162.

SD Card Ready: A memory card scan is underway, to prepare the card for use.

SD Card Removed: A memory card was un-installed.

Bluetooth Active: Bluetooth is turned on.

Bluetooth Connected: Your device is connected with another Bluetooth device.

Wi-Fi Active: Wi-Fi is active, and connected to a Wi-Fi network.

Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. (For more information about configuring Wi-Fi, see *"Wi-Fi Settings"* on page 142.)

TTY: TTY Mode is active.

Display settings

You can customize display settings to your preferences. (For more information, see *"Display"* on page 157.)

Extended Home Screen

The Home screen consists of the Home panel, plus panels that extend beyond the display width to provide more space for adding shortcuts, widgets and folders.

Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Shortcuts**: For more information, see *"Shortcuts"* on page 38.
- **Add Widgets**: For more information, see *"Widgets"* on page 39.
- **Add Folders**: For more information, see *"Folders"* on page 39.
- **Change the Wallpaper**: For more information, see *"Wallpaper"* on page 40.

Adding and removing Home screen panels

Your phone comes with 7 Home screen panels. You can customize the Home screen to include up to the seven default panels, and set one panel as Home.

1. From the Home screen, touch **Menu**, then touch **Edit page**.

   Tip: You can also "pinch" the Home screen to display Edit options.

2. Use these controls to configure panels:

   Remove: Touch and hold on a panel, then drag it to **Remove**.

   Add: Touch a previously-removed panel to add it, up to the default total of six.

   Change panel sequence: Touch and drag panels to different positions.

3. To change the order in which the panels appear, touch and drag each panel you want moved in place of the panel in the desired sequence.

Primary Shortcuts

Primary Shortcuts appear at the bottom of the display. You can edit the Primary Shortcuts, except for **Apps**.

Editing the Primary Shortcuts

To add or remove shortcuts:

- Touch and hold a shortcut, then drag it from the Primary Shortcuts to the Home screen, or from the Home screen to the Primary Shortcuts.

To remove shortcuts:

- Touch and hold the shortcut until **Remove** appears, then drag the shortcut to the **Remove** icon.

Shortcuts

Use App shortcuts to launch applications from the Home screen. Your phone comes with app shortcuts already placed on the Home screen, and you can add your favorites.

Adding Shortcuts to the Home Screen

Adding shortcuts from the Home screen

1. Press the **Home** key, then touch and hold on the screen to display the **Add to Home screen** menu.
2. Touch **Apps and widgets → Apps** tab, then touch a selection.
3. Follow the prompts to configure the shortcut and add it to the Home screen.

Adding Shortcuts from Apps

1. Press the **Home** key.
2. Touch **Apps**.
3. Touch and hold on an app until it appears on the Home screen.

Removing Shortcuts

- Touch and hold the shortcut until **Remove** appears, then drag the shortcut to the Remove icon.

Widgets

Widgets are self-contained applications that you can place on the Home screen for quick, direct access.

Adding Widgets to the Home screen

1. Press the **Home** key, swipe to a Home screen panel, then touch and hold on the screen to display the **Home screen** menu.
2. Touch **Add to Home screen**, then select **Apps and widgets**.
3. Touch the **Widgets** tab, then touch a widget and follow the prompts to configure the widget and place it on the Home screen.

Adding Widgets from Apps

1. Press the **Home** key, and swipe to a Home screen panel.
2. Touch **Apps**, then touch the **Widgets** tab.
3. Touch a widget, then follow the prompts to configure the widget and place it on the Home screen.

Removing Widgets

- Touch and hold the widget until **Remove** appears, then drag the widget to the **Remove** icon.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. Press the **Home** key.
2. Touch and hold on the screen to display the **Home screen** menu, then select **Add to Home screen → Folder**.

   – or –

   Touch **Menu → Create folder**.
3. The folder appears on the Home screen. Touch the folder to name it.

Removing Folders

- Touch and hold the folder until **Remove** appears, then drag the folder to the Remove icon.

Wallpaper

Choose a picture to display in the background of the Home screen. You can choose from pre-loaded wallpaper images, or select a picture you've taken with the Camera or downloaded.

1. Press the **Home** key, touch and hold on the screen to display the **Home screen** menu, then select **Set wallpaper** ➔ **Home screen** / **Lock screen** / **Home and lock screens**.
2. Choose a source:
   - **Gallery**: Choose a picture stored on your phone or on an optional installed memory card. Touch a picture to select it, then use the crop tool to resize the picture, if desired. Touch **Done** to save the picture as wallpaper.
   - **Live wallpapers**: Choose from pre-loaded animated wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.
   - **Wallpaper**: Choose from pre-loaded wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.

Note: You can also set Wallpaper in Settings. (For more information, see *"Wallpaper"* on page 157.)

Apps

Apps holds all applications installed on your phone. Applications that you download and install from the Google Play™ Store or from the web are also added to Apps.

Like the Home screen, the Apps screen consists of panels that extend beyond the display width to provide more space. Swipe your finger horizontally across the screen to scroll to the additional Apps panels. As you scroll, an indicator at the bottom of the screen shows your current position.

(For more information about applications, see *"Applications and Widgets"* on page 84.)

You can place shortcuts to apps on the Home screen, for quick access to the apps. (For more information, refer to *"Adding Shortcuts from Apps"* on page 38.)

1. Press the **Home** key, then touch **Apps**.
2. Swipe your finger left or right to scroll the Apps screens.
3. Touch an icon to launch the application.

Customizing the Apps Screens

Choosing a view

By default, app icons appear in Grid view. You can change the view to list view.

1. Press the Home key, then touch Apps.
2. Touch Menu → **View type**.
3. Choose an option:
   - **Customizable Grid**: The default view, which allows you to touch and hold on apps to move them from screen to screen.
   - **Alphabetical grid**: Icons are arranged in a grid, in A-Z order.
   - **Alphabetical list**: Icons display in a list, sorted from A-Z.

Apps screen options

1. Press the Home key, then touch Apps.
2. Touch Menu for options:
   - **Play Store**: Launch Google Play™ Store, to browse for new apps to download.
   - **Edit**: Touch and hold an app icon for these options:
     - Drag it to a new location.
     - Drag it to to create a new folder to contain the icon.
     - Drag it to to create a new apps screen panel and place the icon on it.
     - Drag it to to launch Application manager to view information about the app. (For more information, refer to *"Application manager"* on page 195.)
     - Drag it to (if available) to remove the icon. The trashcan is only available for apps you've installed. Pre-loaded apps cannot be removed.
   - **Create folder**: Add folders in which to group your apps.
   - **Uninstall**: Remove an app that you downloaded from your phone. Pre-loaded apps cannot be un-installed.
   - **Downloaded applications**: Display all apps you've downloaded.

- **View type**: Configure the apps screen.
- **Share apps**: Select apps you've downloaded (not available for pre-loaded apps) to share via Bluetooth, Dropbox, Email, Flipboard, Gmail, Google+, Messaging, S Memo, Wi-Fi Direct.
- **Hide applications** / **Show hidden applications**: Control whether app icons are visible in Apps. Hiding an icon does not remove the app from your phone.

Entering Text

This section describes how to enter words, letters, punctuation, and numbers when you need to enter text.

Text Input Methods

There are three text input methods available:

- **Google Voice typing**: allows you to enter text by speaking.
- **Samsung keyboard (default)**: Samsung's on-screen QWERTY keypad that can be used in both portrait and landscape orientation.
- **Swype**: a new way to enter text on touch screens. Instead of tapping each key, use your finger to trace over each letter of a word.

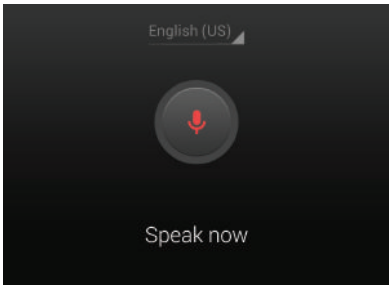
(To change the input method, see *"Keyboards and input methods"* on page 172.)

Using the Google Voice Typing Feature

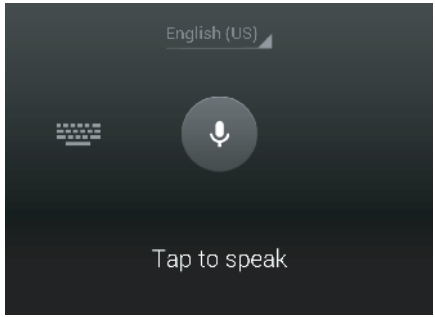
You can use your voice to enter text using the Google Voice typing feature.

Note: This feature works best when you break up your message into short segments.

1. On the keyboard, touch **Voice Typing-Input select**.



2. At the **Speak now** prompt, speak clearly and distinctly into your phone's microphone.
3. If the red microphone turns gray, then the feature has timed out and you should tap the microphone icon to start again.

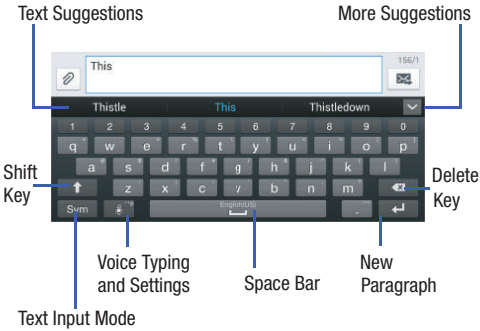


The text is displayed in the message as you are speaking.

4. To return to the keyboard, touch .

Entering Text Using the Samsung Keyboard

From a screen where you can enter text, rotate your phone counterclockwise to a Landscape orientation. The on-screen QWERTY keypad will display.



Changing the Text Input Mode - Keypad

There are two main keypad layout keys that will change the on-screen keys within the QWERTY keypad.

The available Text Input modes are: **Sym** and **Abc**.

Sym — **Symbol Mode**: Activates the number, symbol, and emoticon keys.

ABC — **Abc Mode**: Activates the default alphabet keys.

Note: When in **Abc** mode, the **Sym** button appears.
When in **Sym** mode, the **ABC** button appears.

Using ABC Mode

1. If desired, rotate your phone to a Landscape orientation.
2. When you touch a text entry field, such as the **Enter message** field for a new text message, the following keyboard image appears:

3. Touch the desired letter or number keys.

Note: The screen initially opens in **Abc** mode.

After typing the first letter, the Shift key ( ) will change to and additonal letters will be lower case.

4. Touch to input another upper-case letter or touch twice to switch to ABC mode. The shift key will change to in ABC mode. Additional letters will be uppercase until you touch the Shift key again.

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers, symbols, or emoticons.

1. If desired, rotate your phone to a Landscape orientation.
2. Touch Sym (bottom-left on the keyboard). The following keyboard appears:

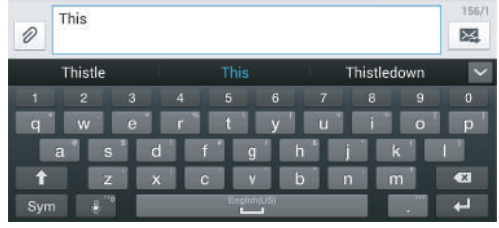
3. Touch the desired number, symbol, or emoticon characters.
4. To access additional symbols, touch 1/2.
5. To return to **Abc** mode, touch ABC.

Predictive Text

Predictive Text supplies next-letter prediction(s) and regional error correction(s), which can compensate for pressing the wrong keys on the QWERTY keyboard. Predictive text is turned on by default.

To turn Predictive Text ON:

1. Touch and hold on the keyboard, then touch . The **Samsung keyboard settings** screen appears.
2. Touch the **Predictive text** slider OFF to **ON**.
3. In the text portion of the message screen, begin typing a word. A list of word options is displayed.
4. To replace the word that has already been typed, touch one of the words.

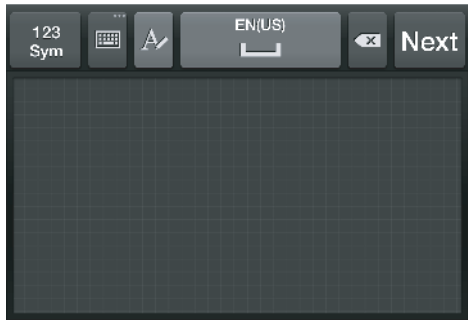


5. Continue typing your message.
6. Touch to send the message or press for more options. (For more information, refer to *"Creating and Sending Messages"* on page 75.)

Entering Text Using Handwriting

You can enter text simply by using your finger to handwrite letters on your screen.

1. On the keyboard, press and hold , then touch **Handwriting**.
2. Use your finger tip to write out each character. You can print or use cursive.
3. You can write out your entire message using the Handwriting feature, or touch to return to the Samsung keyboard.



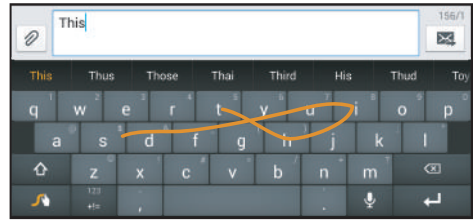
Samsung Keyboard Settings

For information on how you can configure your Samsung keyboard settings, see *"Keyboards and input methods"* on page 172.

Entering Text Using Swype

Swype™ is a text input method that allows you to enter a word by sliding your finger or stylus from letter to letter, lifting your finger between words. Swype uses error correcting algorithms and a language model to predict the next word. Swype also includes a predictive text system.

The following example shows how to enter the word "This". Put your finger down on the "T", and without lifting, glide it to the "h", then to the "i" then over to the "s".



Swype Settings

For information on how you can configure your Swype settings, see *"Keyboards and input methods"* on page 172.

Swype Text Entry Tips

From the **Swype settings** screen, you can access **How to Swype** tutorials on using Swype. You can also use the following Swype text entry tips:

- Create a squiggle (like an S shape) to create a double letter (such as pp in apple).
- Touch and hold a key to view the punctuation menu then make a selection.
- Move your finger or stylus over the apostrophe to enter contractions.
- Double-tap on the word you want to change to correct a misspelled word, then tap the delete key to erase one character. Touch and hold the delete key to erase an entire word.

Enabling and Configuring Swype

The Samsung keyboard is the default text input method, so to use Swype, you must first change the default keyboard setting.

To enable Swype:

1. From a screen where you can enter text, touch and drag down from the Notifications area then touch **Select input method**.
2. Touch the **Swype** radio button, which turns green.

   The Swype keyboard appears.

Section 3: Accounts and Contacts

Accounts

Your phone provides the ability to synchronize information, from a variety of accounts, including Email, Facebook, Google, and your Samsung account. Depending on the account, you can choose to synchronize your calendar, contacts, and other types of content.

Contacts from your accounts appear in your phone's Contacts.

With synchronization, you can ensure that information on your phone is updated with any information that changes in your accounts.

Setting Up Your Accounts

Set up and manage your accounts with the **Accounts** settings.

For information about setting up other, non-synchronized email accounts, see *"Configuring Email Accounts"* on page 80.

Tip: For more information on setting up your email, contact your Wireless Provider.

Adding an account

1. From the Home screen, touch **Menu**, then touch **Settings** →**Accounts**.
2. Under **My accounts**, touch **Add account**.
3. Select an account type, then follow the prompts to enter your credentials and sign in.
4. The phone communicates with the provider's server to set up your account on the phone.

Controlling Synchronization

You can choose to have your phone automatically synchronize with your accounts, or manually synchronize each account when you want to check messages.

You may also choose to limit automatic or background synchronization to extend battery life.

1. From the Home screen, touch **Menu**, then touch **Settings** →**Accounts**.
2. Under **My accounts**, touch the desired account type. The related account type screen appears.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account appears listing some or all of the following synchronization settings:
   - **Sync Calendar**
   - **Sync Contacts**
   - **Sync Email**
   - **Sync Gmail**
   - **Sync Google Photos**
   - **Sync Google Play Books**
   - **Sync Google Play Magazines**
   - **Sync Google Play Movies & TV**
   - **Sync Google Play Music**
   - **Sync Internet**
   - **Sync Picasa Web Albums**
   - **Sync Tasks**
4. Touch these settings to enable/disable synchronization of the associated file types. When enabled, a check mark appears in each setting check box.
   - With automatic synchronization enabled, your phone automatically synchronizes its related files with similar files on on-line file servers.
   - With automatic synchronization disabled, you can manually sync accounts by touching **Sync all** in the account type screen for each account.

Tip: You can control automatic synchronization using the **Sync** toggle in the Quick Settings menu on the Notifications screen. (For more information, refer to *"Quick Settings Menu"* on page 32.)

Google Account Privacy Settings

Personalize the Privacy settings for Google accounts:

1. From the Home screen, touch **Menu**, then touch **Settings** →**Accounts**.
2. Under **My accounts**, touch **Google**. The **Google** account type screen appears.
3. Under **Privacy**, the following options are available:
   - **Maps & Latitude**: Tailor **Location settings** for Google accounts.
   - **Search**: Manage Google accounts location histories and search histories.
   - **Location settings**: Choose whether Google apps can access location information for Google accounts.
   - **Google+**: Manage Google+ information for Google accounts.
   - **Ads**: Choose whether to personalize Google and AdMob advertisements for Google accounts.

Managing accounts

1. From the Home screen, touch **Menu**, then touch **Settings** →**Accounts**.
2. Under **My accounts**, touch the desired account type. The related account type screen appears.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account appears. (For more information, refer to *"Controlling Synchronization"* on page 51.)
4. To enable or disable a synchronization setting, touch it. When enabled, a check mark appears in the check box.
5. To invoke the enabled synchronization settings for the selected account, touch **Sync now**.
6. To remove the selected account from your phone, touch **Remove account**. A **Delete account?** pop-up prompts you to confirm the removal.

   To remove the selected account, touch **Remove account**.

Contacts

To access Contacts:

- From the Home screen, touch **Contacts**.

Contact tips:

- Swipe your finger left-to-right across a contact to make a call to the contact.
- Swipe right-to-left across a contact to create a message addressed to the contact.

Adding Contacts

1. From the Home screen, touch **Contacts** → **Add contact**.
   - If you have defined accounts (Google, Samsung, and so on), the **Save contact to** pop-up appears. Select **Phone** or the account to receive the new Contact entry.
   - If you have not defined any accounts, the **Save contact** pop-up appears. The following options are available:
     - **OK**: Saves your contacts in **"my device contacts"**.
     - **Add new account**: Lets you define an account to which your device will save your contacts. The **Add new account** screen appears. (For more information, refer to *"Setting Up Your Accounts"* on page 50.)
2. Touch contact fields to select or enter information:
   - Touch **Add photo ID** to choose a picture to identify the contact.
   - Touch **Name** to enter a name for the contact. Touch to enter **Name prefix**, **First name**, **Middle name**, **Last name,** or **Name suffix**.
   - Touch **Phone number** to enter a phone number, then touch the **Label** button to choose a label, from **Mobile**, **Home**, **Work**, **Work Fax**, **Home Fax**, **Pager**, **Other**, **Custom**, or **Callback**. To add another number, touch .
   - Touch **Groups** to assign the contact to a group. For more information about Groups, see *"Groups"* on page 60.
   - Touch **Ringtone** to choose a ringtone for the contact.
   - Touch **Message alert** to select the alert tone to be played when you receive a message from this contact.
   - Touch **Vibration pattern** to choose a vibration pattern to play when you receive a call or message from this contact.
   - Touch **Add another field** to add more fields, including **Phonetic Name**, **Organization**, **Email**, **IM**, **Address**, **Notes**, **Nickname**, **Website**, **Events**, or **Relationship**.

3. When you finish selecting and entering information, touch **Save**.

Creating Contacts from Recent calls

Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to *"Creating or Updating Contacts Using Recent calls"* on page 68.

Creating Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad, then save it.

1. From the Home screen, touch **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**, then select **Create contact** from the pop-up menu.
4. Continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Tip: While entering a phone number, you can add waits or pauses. Enter the number up to the pause or wait, then touch **Menu** to select **Add 2 sec pause** or **Add wait**.

Updating Contacts

Make changes to update an existing contact.

1. From the Home screen, touch **Contacts**.
2. Touch a contact to view its information, then touch **Edit**.

   – or –

   Touch and hold a contact, then select **Edit** from the menu.
3. Continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Updating Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad, then save it.

1. From the Home screen, touch **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**, then select **Update existing** from the pop-up menu.
4. Select a contact to update, then continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Updating Contacts from Recent calls

Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to *"Creating or Updating Contacts Using Recent calls"* on page 68.

Choosing Contacts to Display

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Contacts to display**:
   - Choose **All contacts** to show all contacts.
   - Touch **Phone** to show only show contacts saved to the phone.
   - Choose an account to only display contacts from that account.
   - Choose **Customized list** to select contact types for each account, or the phone.

Contacts Settings

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Settings**:
   - Select **Only contacts with phones** to show contacts with at least one stored phone number.
   - Touch **List by** to sort contacts by first or last name.
   - Touch **Display contacts by** to list contacts by first or last name.
   - Touch **Contact sharing settings** to set your preference for sending contacts namecards to other accounts or devices. (For more information about sending contacts, see *"Sending Namecards"* on page 59.)

Other Contacts Options

1. From the Home screen, touch **Contacts**.
2. Touch a contact to display it, then touch **Menu**:
   - **History**: View calls and messages to and from this contact.
   - **Edit**: Modify contact information. (For more information, refer to *"Updating Contacts"* on page 55.)
   - **Delete**: Erase the contact record.
   - **Join contact** / **Separate contact**: Manage multiple contacts as one. (For more information, refer to *"Joining Contacts"* on page 57.)
   - **Mark as default**: Set a default phone number or other field (such as IM or email address). Defaults are the contact method used when creating a message or calling a contact. You can also set a default by touching and holding on a contact field.
   - **Share namecard via**: Send the namecard. (For more information, refer to *"Sending Namecards"* on page 59.)
   - **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact from the reject list, touch and hold on the contact in the main contacts screen, then choose **Delete from reject list**.

- **Print contact info**: Print the namecard via Bluetooth to a compatible Samsung Bluetooth-enabled printer.
- **Place to home screen**: Add shortcut to this contact to Home screen.

My Local Profile

My local profile is your own contact record, listed under **ME** in Contacts. You can send My local profile as a vCard via Bluetooth or as an attachment.

Creating My Local Profile

1. From the Home screen, touch **Contacts**.
2. Under **ME** touch your name entry or touch **Set up profile**.
3. Enter your information in the contact fields. (For more information, refer to *"Adding Contacts"* on page 53.)

Sending My Local Profile

You can send your profile as a vCard via Bluetooth to other Bluetooth devices, or as an attachment.

1. From the Home screen, touch **Contacts**.
2. Touch your profile to display your contact information.
3. Touch **Menu**, then touch **Share namecard via**.
4. Choose a sending method or app from the **Complete action using** pop-up, then follow the prompts to send the profile.

Joining Contacts

Your phone can synchronize with multiple accounts, including Google, Corporate, and other providers, plus social networking sites like Facebook. When you synchronize contacts from these accounts with your phone, you may have multiple contacts for one person.

Joining contact records allows you to see all the contact's numbers and addresses together. Joining also helps you keep your contacts updated, because any changes to information in the respective accounts is automatically updated the next time you synchronize with the account.

Joining contacts

1. From the Home screen, touch **Contacts**.
2. Touch a contact to display its information.
3. Touch **Menu**, then touch **Join contact**. A list of available contacts appears.
4. Select a contact to join to the displayed contact. The joined contact appears.

5. To join another contact, touch the **Connection** field. The Joined contact screen appears.

   Touch **Join another contact**. A list of available contacts appears.

   Select a contact to join to the displayed contact. The joined contact appears.

Separating contacts

1. From the Home screen, touch **Contacts**.
2. Touch a contact to display its information.
3. Touch the **Connection** field to display joined contacts.
4. Touch to the right of a contact to remove it from the selected joined contact.

Exporting and Importing Contacts

You can export your contact list to an installed memory card, or import a list of contacts (previously exported) from a memory card.

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Import/Export**.
3. Select an option, then follow the prompts to complete the operation:
   - **Import from USB storage**: Copy contacts that are saved in installed mass storage.
   - **Export to USB storage**: Copy contacts to installed mass storage.
   - **Import from SD card**: Copy contacts that are saved on an installed memory card.
   - **Export to SD card**: Copy contacts to an installed memory card.
   - **Share namecard via**: Share contacts as Namecards. (For more information, refer to *"Sending Namecards"* on page 59.)

Sending Namecards

You can send a contact entry as a namecard using a Bluetooth connection to another device, or as an attachment to a Gmail or Email message.

Important! Not all Bluetooth devices will accept contacts, and not all devices support transfers of multiple contacts. Check the target device's documentation.

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Import/Export → Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark appears in the check box for marked contacts.
4. Touch **Done**.
5. Choose a sending method or app from the **Complete action using** pop-up, then follow the prompts to send the profile.

Favorites

Mark contacts with a star to identify them as Favorites.

Favorites display on the **Favorites** tab in the **Phone** and **Contacts** screens for fast dialing or messaging, and are indicated by the .

Creating Favorites

1. From the Home screen, touch **Contacts**.
2. Touch and hold on a contact, then select **Add to favorites** from the pop-up menu.

   – or –

   Touch a contact to display it, then touch at the top right of the screen, it changes color to .

Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members. Your phone comes with pre-loaded groups you can use to add your contacts.

Adding a New Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch **Menu** ➔ **Create**, then enter information:
   - Touch **Group name** to enter a Group Name.
   - Touch **Group ringtone** to choose a ringtone for calls from members of this group.
   - Touch **Message alert** to choose a ringtone for messages from members of this group.
   - Touch **Vibration pattern** to choose a vibration to play for calls from members of this group.
   - Touch **Add member** to select members from Contacts.
3. Touch **Save** to save the new group.

Editing a Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch a Group to display it.
3. Touch **Menu** ➔ **Edit**, then update information for the group. For more information, see *"Adding a New Group"* on page 60.

Deleting a Group

Tip: You can only delete groups that you have created.

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch **Menu** ➔ **Delete groups**.
3. Touch a Group to mark it for deletion, or touch **Select all** to mark all groups. When selected, a check mark appears in the check box. You cannot delete pre-loaded groups.
4. Touch **Delete**, then choose **Group only** or **Group and group members**.

Adding Contacts to a Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch a Group to display it, then touch .
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
4. Touch **Done** to add the selected contact(s).

Removing Contacts from a Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch a Group to display it.
3. Touch **Menu** ➔ **Remove member**.
4. Touch contact(s) to mark them for removal, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
5. Touch **Done** to remove the selected contact(s).

Sending a Message to Group Members

Create a new text or email message, addressed to the group's members.

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch and hold a Group, then touch **Send message** or **Send email**.
3. Touch contacts to mark them as recipients for the new message, then touch **Done**.
4. The new message opens, with the marked contacts as recipients. Continue creating the message, as desired. (For more information, refer to *"Creating and Sending Messages"* on page 75, or *"Composing and Sending Email"* on page 80.)

Speed Dials

Speed dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

For more information about calling using speed dials, see *"Making Calls using Speed Dials"* on page 63.

Note: Speed dial 1 is reserved for Voicemail, and cannot be assigned.

Assigning Speed Dials

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Speed dial setting**.
3. A list of speed dials displays.Touch a speed dial, then touch a contact to assign the speed dial to the contact.

Removing or Reassigning a Speed Dial

1. From the Home screen, touch **Contacts**.
2. Touch **Menu**, then touch **Speed dial setting**.
3. Touch and hold an assigned Speed dial setting, the following options pop-up:
   - **Replace**: Touch a new speed dial location to assign it to the contact.
   - **Remove**: Un-assign the speed dial from the contact.

Making Calls

Your phone offers multiple ways to make calls:

- Use the touch screen **Phone Keypad** to enter the phone number or speed dial.
- Call a contact from **Contacts**.
- Call a contact from **Favorites**.
- Return a call, or call a recent caller, from **Recent**.
- Voice dial using **Voice Dialer**.

Making Calls Using the Phone Keypad

1. From the Home screen, touch **Phone**.
2. Touch the digits of the telephone number on the **Keypad**.
3. Touch to place the call.

Making Calls using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

(For more information about setting speed dials, see *"Speed Dials"* on page 62.)

1. From the Home screen, touch **Phone**.
2. Touch the digits of the speed dial number on the **Keypad**, holding the last digit until the number dials.

Making Calls from Contacts

A contact is an entry that you have created to store the name, numbers, and other information for people or groups of interest.

(For more information, refer to *"Contacts"* on page 53.)

1. From the Home screen, touch **Contacts**.
2. Find a contact you wish to call.
3. Swipe your finger from left to right across the contact to dial their default number.

   – or –

   Touch the contact or its photo ID, then touch to dial the desired number.

Making Calls using S Voice

Place a call by speaking the name or number.

1. From the Home screen, touch **Phone**. then touch **S Voice**.
2. The first time you access S Voice, follow the prompts to confirm the license agreement, and view information about S Voice.
3. Follow the prompts to speak a command. You can say commands such as:
   - **Call <Name >**: Call an entry in your Contacts list.
   - **Dial <Phone number>**: Call a spoken phone number.
   - **Redial**: Repeat a recent call.

Making Calls using Favorites

Favorites are contacts that you designate as favorites by starring them. (For more information about creating favorites, see *"Favorites"* on page 59.)

1. From the Home screen, touch **Phone**.
2. Touch **Favorites** to display favorites.
3. Find the contact and touch it to open the Contact entry.
4. Swipe your finger from left to right across the contact to dial their default number.

   – or –

   Touch a contact, then touch to dial the number.

Making Calls from Recent calls

Return a call, or call a number from a recent call stored in Recent calls.

(For more information, refer to *"Recent Calls"* on page 68.)

Multi-party Calling

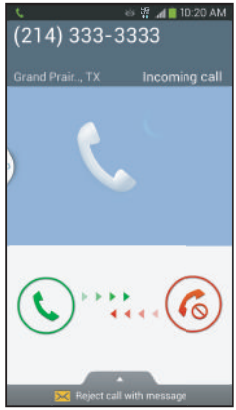
Use multi-party call features to set up a call between multiple callers, such as for a conference call.

1. Establish the first call, by answering an incoming call or making a call.
2. Touch **Add call**. The first call is placed on hold.
3. Make the second call by touching the phone number digits, then press .
4. Touch Merge to merge the calls into one conference call.
5. To end the call touch .

Answering Calls

You can answer incoming calls when the phone is locked or unlocked.

- Touch and drag the **Answer** icon to the right.



Tip: To silence the ringtone for an incoming call, press the **Volume** key Up or Down.

Sending Calls to Voicemail

When your phone alerts you to an incoming call, you can reject the call to send the caller to voice mail, or reject the call and send a message to the caller.

Rejecting a call

- Touch and drag the **Reject** icon to the left.

Rejecting a call with a message

- Touch and drag **Reject call with message** toward the middle of the screen, then select an existing message, or **Create new message**.

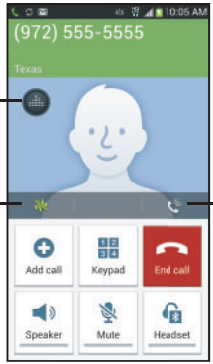
Note: For more information about creating reject messages, see *"Set up call rejection messages"* on page 70.

Answering Call-Waiting Calls

When you receive a call while on a call:

- Touch and drag the **Answer** icon to the right to answer the incoming call. The original call is placed on hold, and remains on hold until you end the second call, or swap calls back to the original call.
- Touch **Swap** to place a call on hold and return to the original call.

Options During a Call



While in a call, you can use these features:

- **Personalize call sound**: Apply a sound equalizer to the call audio, in cases where you might need the sound softer or clear, or optimized for your right or left ear.
- **Noise reduction on/Noise reduction off**: Enable or disable noise reduction, to improve call audio quality in noisy environments.
- **Extra volume**: Enable or disable increased volume in the earpiece. Compensates for low sound from the other caller.
- **Add call**: Display the Dialer to set up a multi-party call.
- **Keypad**: Display a keypad to enter numbers.
- **End call**: End the phone call.
- **Speaker**: Enable or disable speakerphone.
- **Mute**: Mute or unmute your voice on the call.
- **Headset**: Switch the call's audio to a Bluetooth headset.
- Touch **Menu** for additional options:
  - **Contacts**: Launch Contacts.
  - **Message**: Launch Messaging to view or create messages.
  - **Memo**: Launch S Memo to take notes in text, or create a drawing.

Ending a Call

- Touch End call.

Recent Calls

When you place, answer, or miss a call, a record of the call is saved in Recent calls.

Accessing Recent calls

- From the Home screen, touch **Phone** ➔ **Recent** to display recent calls.

Making Calls using Recent calls

1. From the Home screen, touch **Phone**.
2. Touch **Recent** to display recent calls.
3. Swipe your finger from left to right across the call to redial.

   – or –

   Touch a call, then touch to dial the number.

Sending Messages using Recent calls

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. Swipe your finger from right to left across the call.

   – or –

   For a contact call, touch the picture ID icon, then touch to create a message to the number.

Creating or Updating Contacts Using Recent calls

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. Touch and hold on a call, then select **Add to Contacts** from the pop-up menu.
3. Choose **Create contact** or **Update existing**.
4. Continue entering contact information. (For more information, see *"Contacts"* on page 53.)

Managing Recent calls

Deleting records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu**, then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check indicates marked records.
4. Touch **Delete** to delete marked records.

Filtering records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu**, then touch **View by**.
3. Select a filter type, from **All calls and messages**, **All calls**, **Missed calls**, **Dialed calls**, **Received calls**, **Rejected calls**, **All messages**, **Sent messages**, or **Received messages**.

Viewing call durations

View the length of the Last call, all Dialed calls, all Received calls, or All calls.

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing calls, touch **Menu**, then touch **Call duration**.

Call Settings

Configure settings for calling with your phone.

- To access Call settings, from the Home screen, touch **Phone** → **Menu** → **Call Settings**.

Call rejection

Create and manage a list of phone numbers, to have your phone automatically reject calls you receive from those numbers.

- From the **Call Settings** screen, touch **Call rejection** for these options:
  - **Auto reject mode**: Choose Off, All numbers, or Auto reject numbers. When set to Auto reject numbers, calls from numbers on the Auto reject list will be rejected.
  - **Auto reject list**: Enter telephone numbers to be rejected when Auto reject mode is set to Auto reject numbers. Touch **Create**, then follow the prompts to enter numbers to reject, or select them from Contacts. Touch **Match criteria** to set options for using the reject number list. Enable **Unavailable** to reject calls with no caller ID (that is, Unknown callers).

Set up call rejection messages

Create and manage text messages to send to callers when you select **Reject call with message** in the **Incoming call** screen.

1. From the **Call Settings** screen, touch **Set up call rejection messages**.
2. Manage messages:
   - To create new messages, touch **Create**, then follow the prompts.
   - To modify an existing message, touch the message, then edit the text.

Answering/ending calls

Manage settings for answering and ending calls.

1. From the **Call Settings** screen, touch **Answering/ending calls**. The following options are available:
   - **The home key answers calls**: When enabled, you can answer an incoming call by pressing **Home**.
   - **Voice control**: When enabled, you can answer calls using the S Voice wake-up command.
   - **The power key ends calls**: When enabled, pressing **Power/Lock** ends a call.

Turn off screen during calls

When enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the phone is used to turn the screen back on when the phone is moved or brought close to another surface, such as when you move the phone to your ear.

- From the **Call Settings** screen, touch **Turn off screen during calls** to enable or disable this option.

  When this option is enabled, a check mark appears in the check box.

Call alerts

Set options for sounds and vibrations to occur during calls.

- From the **Call Settings** screen, touch **Call alerts**. The following options are available:
  - **Call vibrations**: Enable **Vibrate on connection to network** to have your phone vibrate when it connects to the network. Enable on **Call-end vibration** to have the phone vibrate when the other caller ends the call.
  - **Call status tones**: Choose options for sounds to play during calls. Enable **Call connect tone** to have the phone play a tone when the other caller answers a call. Enable **Minute minder** to have a tone play once per minute during a call. Enable **Call end tone** to have the phone play a tone when the other caller ends the call. Touch **OK** to save the settings.
  - **Alerts on call**: Enable to have notifications for alarms and new messages play during phone calls. When disabled, these notifications will be muted during a call.

Call accessories

Configure headset options for calls.

- From the **Call Settings** screen, touch **Call accessories**. The following options are available:
  - **Headset settings for incoming calls**:
    - **Automatic answering**: When enabled, and you have a headset connected to the Headset Jack, incoming calls are answered automatically after a delay, set at Automatic answering timer.
    - **Automatic answering timer**: Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the phone.
  - **Bluetooth headset settings**:
    - **Outgoing call conditions**: When the phone is paired with a Bluetooth headset, you can choose to make calls even when the phone is locked.

Ringtones and keypad tones

Select incoming call ringtone and vibration, and enable or disable call vibration and keypad tones.

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Ringtones and keypad tones**. The following options are available:
  - **Ringtones**: Select the ringtone your phone plays to alert you of incoming calls.
  - **Vibrations**: Select the vibration pattern your phone uses to alert you of incoming calls.
  - **Vibrate when ringing**: Touch to enable/disable use of your selected **Device vibration**. When enabled, a check mark appears in the check box.
  - **Keypad tones**: Touch to enable/disable playing of DTMF tones when you enter numbers with the Phone keypad. When enabled, a check mark appears in the check box.

Personalize call sound

Apply a sound equalizer to the call audio, in cases where you might need the sound softer or clear, or optimized for your right or left ear.

1. From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Personalize call sournd**.
2. Choose to Adapt sound, to use Soft sound or Clear sound, or Off (sound set with the Volume key).

Noise reduction

When enabled, the phone uses both of its microphones to detect background noise from your environment and suppress it during calls.

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Noise reduction** to enable or disable the option.

Increase volume in pocket

When enabled, the phone uses the proximity sensor to detect when the phone is in a pocket or other close-fitting location such as a purse or bag, and increases the volume for incoming call ringtones.

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Increase volume in pocket** to enable or disable the option.

Voicemail

Configure options for voicemail.

- From the **Call Settings** screen, under **Voicemail**, the following options are available:
  - **Voicemail service**: By default, your phone uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.
  - **Voicemail settings**: By default, the speed dial for calling voicemail (speed dial 1) is set to your phone number. If you wish to use another Voicemail service, touch **Voicemail number** to set a new one.
  - **Sound**: Choose the sound to play for a voicemail notification.
  - **Vibrate**: Choose an option for vibration to play for a voicemail notification.

Other call settings

- From the **Call Settings** screen, under **Other call settings**, the following options are available:
  - **Auto retry**: When enabled, the phone will automatically redial a call if it receives a busy signal from the network.
  - **TTY mode**: Choose a TTY mode to enable TTY mode, for use with optional TTY equipment.
  - **DTMF tones**: Set the length of Dual-tone Multi-frequency tones, which play when you use the keypad during a call, such as when navigating phone menus.
  - **Voice privacy**: Enable or disable Enhanced voice privacy, to improve the security of phone calls.

Section 5: Messaging

This section describes how to send and receive messages, and other features associated with messaging.

Types of Messages

Your phone supports these types of messages:

- **Text messages**: Send and receive simple messages containing text to other mobile phones or email addresses (also known as SMS).
- **Multimedia messages**: Send and receive text messages with pictures, video, and/or sound to other mobile phones or email addresses (also known as MMS).
- **Mobile IMs**: Exchange Instant Messages with other users of popular messaging sites.
- **Email**: Send and receive email from your email accounts, including Corporate mail.
- **Gmail**: Send and receive Gmail from your Google account.
- **Voicemail**: Retrieve voice messages from callers.
- **Google Talk**: Chat with other Google Talk users.

Text and Multimedia Messaging

Your phone can send and receive text and multimedia messages.

Creating and Sending Messages

1. From the Home screen, touch **Messaging** ➔ **New message**.
2. Touch **Enter recipient** and enter a name, phone number or email address, or touch to add recipients from Contacts. As you enter text, matching contacts appear. Touch a contact to add it to the list.
3. Touch **Enter message**, then enter the message text. The following options are available (which options are available depends on whether you include an attachment):
   - Touch **Attach** to add media (images, pictures, videos, audio files) or content (Memo text, Calendar events, Locations, Contacts) to the message (converts the message to MMS).

- Touch **Menu** for options:
  - **Insert smiley**: Add a text emoticon to the message.
  - **Add text**: Select text from S Memo, Calendar, Location, Contacts or Text templates to add.
  - **Preview**: View the message and attachments before sending.
  - **Add to Contacts**: If the recipients are not saved in Contacts, save the info as a new contact, or update an existing contact.
  - **Add slide** / **Delete slide**: Add or remove a slide. Slides hold pictures or other media (adding a slide converts the message to MMS).
  - **Add subject**: Add a subject field (converts the message to MMS.)
  - **Duration (5sec)**: Set the length of time the media on the slide displays.
  - **Layout (bottom)**: Choose whether the message text appears above (Text on top) of the attachment(s), or after (Text on bottom).
  - **Discard**: Erase this message.
  - **Translate**: Launches S Translator to translate your typed or spoken words to another language. (For more information, refer to *"S Translator"* on page 115.)

4. Touch to send the message.

Managing Messages

Messages you send and receive to the same contact, number or address are grouped together as a "conversation". Threads allow you to see all the messages you exchanged with a recipient in one place.

1. From the Home screen, touch **Messaging**.
2. Message threads display by contact, number, or address. While viewing message threads, you have these options:
   - Touch and hold a thread to choose options, including:
     - **View Contact** / **Add to Contacts**: View the contact record, or save the sender/recipient's information.
     - **Delete thread**: Erase the entire message thread.
     - **Add to spam numbers**: Add this number to message reject list. Messages from this number are automatically placed in the Spam messages folder.
   - Touch **Menu** for options, including:
     - **Search**: Enter characters to search messages and recipients.
     - **Delete threads**: Touch message threads to mark them for erasure, or touch **Select all** to mark all message threads.

– **Draft messages**: Messages you have composed and saved for later reuse and/or to be sent to a recipient.
– **Locked messages**: Messages you have locked to protect them from accidental deletion.
– **Scheduled messages**: Messages you have set to be delivered at a selected date and time.
– **Spam messages**: Messages received from numbers you have registered as spam senders.
– **Settings**: Configure Messaging settings.

Message Settings

Configure settings for message storage, delivery, or alerts.

1. From the Home screen, touch **Messaging**.
2. Touch **Menu**, then touch **Settings** for options:
   - **General settings**:
     – **Delete old messages**: When enabled, messages are automatically erased when storage reaches default limits. When disabled, the phone will prompt you to delete old messages to make room.
     – **Text message limit**: Set the number of SMS messages per conversation.
     – **Multimedia message limit**: Set the number of MMS messages per thread.
     – **Text templates**: Text templates are phrases that you can add to your messages. Use a pre-loaded text template, or create your own.
   - **Text message (SMS) settings**:
     – **Delivery reports**: When enabled, you receive a delivery report for text messages you send.
     – **Auto combination**: When enabled, re-assembles multi-segment messages and shows them as a single message.

- **Multimedia message (MMS) settings**:
  - **Goup messaging**: When enabled, you can send a single message to multiple recipients.
  - **Delivery reports**: When enabled, you receive a delivery report for multimedia messages you send.
  - **Auto-retrieve**: When enabled, MMS messages download automatically. When disabled, the phone prompts for download.
  - **Roaming auto-retrieve**: When enabled, MMS messages download and display automatically when roaming. When disabled, the phone prompts you to download new MMS messages.
  - **MMS alert**: When enabled, alerts you when a message changes mode to MMS.
- **Display**:
  - **Bubble style**: Choose the appearance of messages in a message thread. Touch a bubble style for each side of the conversation, then touch **Save**.
  - **Background style**: Choose the appearance of the screen behind message threads. Touch a style, then touch **Save**.
  - **Use the volume key**: When enabled, you can change the size of message text while viewing by pressing the Volume Key.
- **Notification settings**:
  - **Notifications**: When enabled, message alerts display in the Status bar.
  - **Select ringtone**: Choose a sound for message alerts.
  - **Vibrate**: Configure vibration for message alerts.
  - **Message alert repetition**: Choose to have message alert repeat Once, Every 2 minutes, or Every 10 minutes.
  - **Preview message**: When enabled, a preview of a received message appears in the Status bar.
- **Emergency message settings**:
  - **Emergency alerts**: This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS), including Presidential Alerts, Imminent Alerts (Severe or Extreme), and AMBER Alerts (missing persons). You may choose not to receive Imminent and AMBER alerts, but Presidential Alerts cannot be disabled. All alerts are enabled by default (check mark shown). (For more information about Emergency Alerts see *"Emergency alerts"* on page 79.)
  - **Emergency notification preview**: Listen to an example of a Emergency Alert tone (and vibration, if enabled). The Emergency Alert tone plays at the same volume as your call ringtone.

– **Vibrate**: Configure vibration for Emergency Alerts.
– **Alert sound**: When enabled, a sound plays for emergency alerts.
– **Alert reminder**: Choose whether, and at what interval, your phone plays a sound to notify you of a Emergency Alert after the Emergency Alert tone has stopped.

- **Signature settings**:
  – **Add signature**: When enabled, adds your signature text to the end of your outgoing messages.
  – **Signature text**: Enter text to be added to the end of your outgoing messages.
- **Spam message settings**:
  – **Spam settings**: When enabled, the Spam message settings are activated.
  – **Add to spam numbers**: Enter sender numbers whose messages are blocked automatically.
  – **Add to spam phrases** : Enter message text phrases that will cause messages to be blocked automatically.
  – **Block unknown senders**: When enabled, messages from "Unknown" senders are blocked automatically.

Emergency alerts

This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS). Emergency Alerts are geographically-targeted, and alert customers of imminent threats to their safety within their area. There is no charge for receiving an Emergency Alert.

There are four types of Emergency Alerts:

- Presidential
- Extreme
- Severe
- AMBER Alerts (missing person alert)

You may choose not to receive Extreme Alerts, Sever Alerts, and AMBER Alerts. Presidential Alerts, however, cannot be disabled. To disable Extreme and Severe Threat Alerts and AMBER Alerts, do the following:

1. From the Home screen, touch **Messaging**.
2. Touch **Menu → Settings → Emergency alerts**.
3. All alerts are enabled by default (check mark showing). To disable alerts, touch an alert to remove the check mark.

Email

Send and receive email using popular email services.

Configuring Email Accounts

You can configure Email for most accounts in just a few steps.

Tip: For better management of Microsoft Exchange® ActiveSync email accounts, configure them using the **Accounts** setting. (See *"Microsoft Exchange ActiveSync"* on page 188.)

Configuring your first email account

1. From the Home screen, select **Apps** ➔ **Email**.
2. Touch **account@example.com** to enter your email address, then touch **Password** or touch **Next** to enter your password.
3. Touch a setup option:
   - **Manual setup**: Configure the account manually. Touch **POP3**, **IMAP** or **Exchange**, then enter the account details. (For account details, contact your Email service provider or your organization's IT support.
   - **Next**: Connect to the server to set up the account automatically. Follow the prompts to complete set-up, then touch **Done**.

Tip: For more information on setting up your email, contact your Wireless Provider and your Email Service Provider.

Adding More Email Accounts

For information on adding additional Email accounts, see *"Email"* on page 183.

Composing and Sending Email

1. From the Home screen, select **Apps** ➔ **Email** ➔ **Compose**.
2. Touch fields to enter recipients and the email text.
3. While composing a message, touch **Menu** for options.
4. Touch **Attach** to add a file to the message.
5. Touch **Send** to send the message.

Managing Emails

Refreshing Your Email Account

Refresh your account to update your phone from the servers.

1. From the Home screen, select **Apps** ➔ **Email**.
2. Touch **Refresh**.

Email Account Settings

Use Account settings to configure handling of your email.

Note: Available settings depend on the email provider.

1. From the Home screen, select **Apps** ➔ **Email**.
2. Touch an account to view it, then touch **Menu** ➔ **Settings** ➔ **General preferences** for options.

Gmail

Send and receive emails via Gmail, Google's web-based email.

- From the Home screen, select **Apps** ➔ **Gmail**.

Setting Up Your Gmail Account

The first time you launch Gmail, your phone will prompt you to set up your Google account.

1. From the Home screen, select **Apps** ➔ **Gmail**.
2. Follow the prompts to sign in, or create a new account.
3. The phone communicates with the Google server to set up your account and synchronize your email.

Note: You can use more than one Google account on your phone. To add another account, from within Gmail, touch **Menu** ➔ **Settings** ➔ **ADD ACCOUNT** option.

Refreshing Your Gmail Account

Refresh your account to update messages on your phone.

1. From the Home screen, touch **Apps** ➔ **Gmail**.
2. Touch **Refresh**.

Managing Your Gmail Account

Use menu options to manage your Gmail.

1. From the Home screen, touch **Apps** ➔ **Gmail**.
2. Touch **Menu** for options.

Composing and Sending Gmail

1. From the Home screen, touch **Apps** ➔ **Gmail** ➔ **New message**.
2. Touch fields and to compose the message. While composing, touch **Menu** for options.
3. When your message is complete, touch **Send**.

Google Talk

Google Talk is a free Windows and web-based application for instant messaging offered by Google. Conversation logs are automatically saved to a Chats area in your Gmail account. This allows you to search a chat log and store them in your Gmail accounts.

1. Log on to your Google account if you have not already done so. For more information, refer to *"Your Google™ Account"* on page 17.
2. From the Home screen, touch **Apps** ➔ **Talk**.
3. Begin using Google Talk.
4. Press ➔ **Help** for more information on using Google Talk.

Note: The Network confirms your login and processes. This could take up to 5 minutes to complete.

Messenger

Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to your phone.

1. Sign on to your Google account. For more information, refer to *"Your Google™ Account"* on page 17
2. From the Home screen, touch **Apps** ➔ **Messenger**.

   – or –

   From the Google+ application, select **Messenger**.
3. Select the account you want to use to sign in to Google+.

   – or –

   Touch **Create a new account** to create another account.
4. At the **Messenger** screen, touch to start a new message.
5. In the upper text field, enter a name, email address, or circle.
6. In the bottom message field, enter a message then touch .
7. From the **Messenger** screen, touch **Learn more** for more detailed information.

Section 6: Applications and Widgets

This section contains a description of each application and widget that is available in the Apps and Widget menus, the function, and how to launch that particular application or widget. If the application or widget is already described in another section of this user manual, then a cross reference to that particular section is provided.

Note: This manual only addresses applications that have been loaded on your device as of the date of purchase. Information concerning third party applications that you may choose to download from the Google Play Store or other sources should be obtained from the application provider directly and not from Samsung.

Tip: To open applications quickly, add the icons of frequently-used applications to one of the Home screens. (For details, see *"Customizing the Home Screen"* on page 37.)

You can also add an application icon as a Primary Shortcut that will display on all Home screens. If you add an application as a primary shortcut, the application icon will not be displayed in the Apps menu. (For more information, refer to *"Editing the Primary Shortcuts"* on page 38.)

Accessing Applications

1. Press **Home**, then touch **Apps**, and the **Apps** tab. The **Apps** screen appears in the display.
2. Sweep your finger right or left to scroll the Apps screens.
3. To launch an application, touch the application's icon.

Downloading and Installing Apps

Find new apps to download and install on your device:

- **Play Store**: For more information, refer to *"Play Store"* on page 114.
- **Samsung Hub**: For more information, refer to *"Samsung Hub"* on page 117

Customizing the Applications Screens

Choosing a view

By default, application icons appear in Customizable grid view. You can change the view to Alphabetical grid view or Alphabetical list view.

1. From the **Apps** screen, touch **Menu** ➔ **View type**. The available options are:
   - **Customizable grid**: Arrange application icons in the order you prefer.
   - **Alphabetical grid**: Application icons automatically arranged in alphabetical order.
   - **Alphabetical list**: Application icons automatically listed in alphabetical order.

Moving Application icons

With the **Apps** screen in Customizable grid view, you can arrange the application icons to suit yourself.

1. From the **Apps** screen, touch **Menu**, then touch **Edit**.

Note: The **Edit** option is not available with the **Apps** screen **View type** set to **Alphabetical list**.

2. Touch and hold an application icon, then drag it to a new location.
3. When you are finished, then touch **Save**.

Filtering Application icons

You can select which icons appear in the **Apps** screen.

- From the **Apps** screen, touch **Menu**, then touch either of the following options:
  - **Downloaded applications**: Shows only those applications you have downloaded and installed on your phone.
  - **Hide applications**: Mark those applications you do not want to appear on the **Apps** screen by touching their icons (check marks appear in their check boxes), then touch **Done**. The **Apps** screen appears without the hidden applications.

Applications List

Calculator

Use your phone's Calculator to perform arithmetical calculations (addition, subtraction, multiplication, and division).

1. From the **Apps** screen, touch **Calculator**.
2. Enter the first number using the on-screen numeric keys.
3. Enter the operation for your calculation by touching the corresponding on-screen arithmetic function key.
4. Enter the second number.
5. To view the result, touch equals (=).
6. To view calculator history, touch located at the top of the calculator buttons. A history of your past calculations is displayed. Touch again to display the calculator keypad.
7. To clear the calculator history, touch **Menu** ➔ **Clear history**.
8. To change the text size, touch **Menu** ➔ **Text size**. Tap Small, Medium, or Large.
9. To display the scientific calculator, rotate your phone to the landscape (horizontal) position.

Calendar

Record events and appointments to manage your schedule.

Tip: A Calendar widget is available in Widgets. (For more information about placing widgets on the Home screen, see *"Widgets"* on page 39.)

1. From the **Apps** screen, touch **Calendar**.
2. Touch a tab to choose a calendar view:
   - **Year**: Display the current year and scroll to other years.
   - **Month**: Display the current month and scroll to other months.
   - **Week**: Display the current week, and scroll to other weeks.
   - **Day**: Display today's schedule, and scroll to other days.
   - **List**: Display events and tasks in a chronological list.
   - **Task**: Display tasks in a chronological list.
3. Touch **Menu** for these options:
   - **Go to**: Display a specific date.
   - **Delete**: Delete an event.
   - **Search**: Search for calendar events.

- **Sync**: Synchronize your phones calendar with your account calendars. (For more information, refer to *"Setting Up Your Accounts"* on page 50.)
- **Settings**: Customize the calendar.

Customizing the Calendar

1. From the **Apps** screen, touch **Calendar**.
2. Touch **Menu** ➔ **Settings** to configure these settings:
   - **View settings**:
     - **View styles**: Choose Month view style (Calendar view + list, Calendar view +pop-up) and/or Week view (Timeline, Analog).
     - **First day of week**: Choose a day to begin each week.
     - **Hide declined events**: Enable or disable display of events.
     - **Lock time zone**: When enabled, sets event times and dates to a specified time zone, so that times and dates will not change if you move to another time zone.
     - **Select time zone**: When Lock time zone is enabled, specify the time zone for all events.
     - **Show week number**: Display the number of the week (1 – 52) in a **W** column to the left of **Sun**.
     - **Calendars**: Select calendars to display.
   - **Event notification**:
     - **Set alerts & notifications**: Choose Alert to receive alerts, Status bar notification to display notifications in the Status bar, or Off for no notifications or alerts.
     - **Select ringtone**: Choose a ringtone for event notifications, then touch **OK**.
     - **Vibration**: Enable/disable vibration for event notifications.
     - **Quick responses**: Pre-composed text to include with email notifications to meeting attendees, guests, and so on.

Sending Events

Send events as vCalendar files to other compatible devices.

1. From the **Apps** screen, touch **Calendar**.
2. Touch an event to display its details.
3. Touch **Menu** ➔ **Share via**.
4. Select the desired Sharing method from the **Share via** pop-up.
5. Follow the prompts to send a copy of a Calendar event to another device. (For more information, refer to *"Connections"* on page 126.)

Camera

Use your 13.0 megapixel Camera feature to take photos and save them in JPEG format. Your phone also functions as a camcorder to record videos and save them in MPEG format.

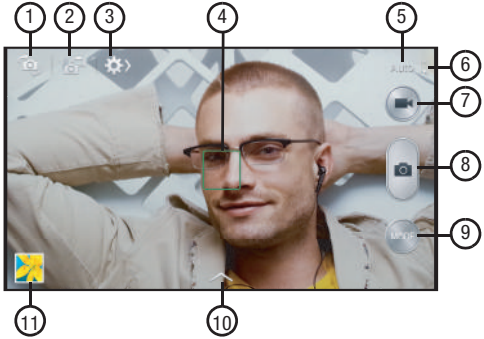
Important! Do not take photos or videos of people without their permission.

Do not take photos or videos in places where cameras are not allowed.

Do not take photos or videos in places where you may interfere with another person's privacy.

Launching the Camera

- From the Home screen or the **Apps** screen, touch **Camera**. The Camera view finder screen appears.



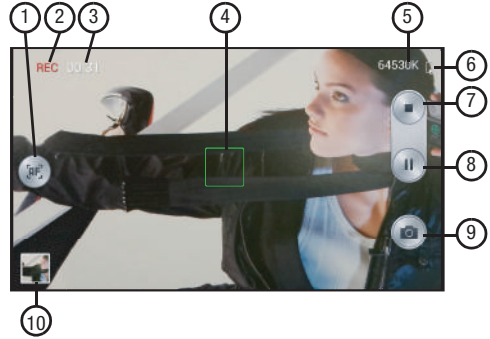
Camera Controls

1. **Front/Rear Camera toggle**: Touch to select either the Rear camera (default) or the Front camera.
2. **Frame**: Touch to place the camera view, and the next picture, in a pre-selected frame.
3. **Options**: Touch to access Camera Settings and Options (Flash, Night Shot, Voice Control, Video Recording Mode, and Sharing).
4. **Focal Point**: Indicates the Camera focal point. To change the focal point, touch a new point on the view finder image.
5. **Camera MODE indicator**: Indicates the current Camera Mode setting. To change the Mode setting, touch the Mode button.
6. **Battery level indicator**: Indicates the available battery charge when the phone is connected to a charger.
7. **Camcorder button**: Touch to start recording a video of the subject in the view finder screen. Displays video recording controls.
8. **Take button**: Touch to take a picture of the subject in the view finder screen.
9. **MODE button**: Touch to review or select the camera's shooting mode (Auto, Beauty face, Best photo, Best face, Sound & shot, Drama, Animated photo, Rich tone (HDR), Eraser, Panorama, Sports, or Night).

10. **Effects tray**: Touch to review or select the color affect applied to pictures (No effect, Vignette, Grey-scale, Sepia, Vintage, Faded color, Turquoise, Tint, Cartoon, Moody, Rugged, Oil pastel, or Fisheye).
11. **Gallery**: Shows a thumbnail image of the last picture or video you have taken or recorded. Touch to access the thumbnail image or the Gallery (see *"Gallery"* on page 100).

Launching the Camcorder

- From the Camera view finder screen, touch . The Camcorder view finder screen appears.



Camcorder Controls

1. **Auto Focus button**: Indicates that the Focus Point has been changed. Touch to return to default (image center) Focus Point.
2. **Recording Status indicator**: Indicates whether recording (as shown) or paused.

3. **Recording Length counter**: Indicates the current length (in minutes and seconds) of this video.
4. **Focal Point**: Indicates the Camcorder focal point. To change the focal point, touch a new point on the view finder image. This causes the Auto Focus button to appear.
5. **Recording Size counter**: Indicates the size of your recording (in kilobytes).
6. **Battery level indicator**: Indicates the available battery charge when the phone is connected to a charger.
7. **Recording Stop button**: Stops and saves the current video recording and returns you to the Camera viewfinder.
8. **Recording Pause button**: Interrupts the current video recording. Replaced by the Recording Resume button.
9. **Image Capture button**: Touch to capture an image from the video while recording. (Not available with **Video stabilization** set to **On**.)
10. **Gallery**: Shows a thumbnail image of the last picture or video you have taken or recorded. Touch to access the thumbnail image or the Gallery (see *"Gallery"* on page 100).

Taking Pictures

Note: When taking a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

1. From the **Apps** screen, touch **Camera**.
2. Using the display as a viewfinder, compose your picture by aiming the lens at the subject.
   - Touch the screen to focus on the area you touched.
   - "Pinch" the screen, or press the **Volume** key, to zoom in or out.
   - To configure settings, see *"Camera Settings"* on page 93.
3. To take the picture, touch **Take**.

Recording Videos

1. From the **Apps** screen, touch **Camera**.
2. Using the display as a viewfinder, compose your shot by aiming the lens at the subject.
   - Touch the screen to focus on the area you touched.
   - "Pinch" the screen, or press the **Volume** key, to zoom in or out.
   - To configure settings, see *"Camera Settings"* on page 93.
3. To start recording, touch **Camcorder**.
4. To pause recording, touch .
5. To resume recording, touch .
6. To capture an image from the video while recording, touch . This feature is not available when the Anti-Shake feature is activated.
7. To stop recording, touch .

Reviewing Pictures and Videos

- After taking a picture, touch **Gallery** to view the picture. While viewing the picture, use these options:
  - "Pinch" the screen, or touch the zoom icons, to zoom in or out, or double-touch to zoom all the way in or out.
  - Touch **Share** to send the picture using ChatON, Group Play, Bluetooth, Dropbox, Email, Flipboard, Gmail, Google+, Messaging, Picasa, S Memo, Wi-Fi Direct, or YouTube.
  - Touch **Edit** to change the appearance of your picture.
  - Touch **Trim** to cut frames from your video.
  - Touch **Delete** to erase the picture or video (only visible with the screen in landscape mode).
  - Touch **Menu** to access added options: Favorite, Slideshow, Photo frame, Photo note, Copy to clipboard, Print, Rename, Scan for nearby devices, Set as, Buddy photo share, Rotate left, Rotate right, Crop, Detect text, Scan for nearby devices, Details, or Settings.

Picture Options

Use these view finder options to configure the camera:

- **Self portrait**: Switch between the back camera and the front camera, for self-portraits.
- **Front facing camera**: Displays the front facing camera.
- Quick Settings: Displays the following, configurable options:
  - **Flash**: Choose Off, On, or Auto flash.
  - **Auto night detection**: Displays the auto night detection setting. On or Off.
  - **Voice Commands**: Displays when Voice control is enabled.
  - **Recording mode**: Determines the recording speed for video recording. Selections: Normal, Limit for MMS, Slow motion, and Fast motion.
  - **Share**: Determines the Share method or mode. Selections: Off, Share shot, Buddy photo share, or ChatON photo share.

Camera Settings

Values you choose for these settings become the new default values until you change or **Reset** them.

Camera tab

- **Photo size**: Choose a size (in pixels) for the image.
- **Burst shot**: Detects action to automatically take multiple pictures to create a panorama.
- **Face detection**: Detects a face with eyes open to automatically take a picture.
- **Metering**: Select a method for measuring light.
- **ISO**: Choose a setting for imaging sensitivity.
- **Anti-Shake**: Choose On to minimize the effect of camera movement.
- **Auto night detection**: Choose On to automatically enable Night Shot exposure according to available light.
- **Save as**: Delivers images with greater intensity which is effective for reducing overexposure in bright conditions.

Camcorder tab

- **Video size**: Choose 1920x1080 (16:9), 1440x1080 (4:3), 1280x720 (16:9), or 320x240 (4:3).

- **Video stabilization**: Choose On to minimize the effect of camera movement.

Common Settings tab

- **GPS tag**: Add GPS location information to photo or video details.
- **Review**: When set to On, displays each picture after you take it.
- **Volume key**: Choose the shortcut assigned to the Volume key (Zoom, Camera Take, Camcorder Record).
- **Timer**: Set a delay before taking a picture or starting a video recording.
- **White balance**: Choose a setting to match the light source.
- **Exposure value**: Adjust the picture brightness level by moving the slider.
- **Guidelines**: Enable or disable an on-screen grid to aid in photo composition.
- **Flash**: Choose Off, On, or Auto flash.
- **Voice control**: Choose OFF or ON, then enable or disable voice commands Smile, Cheese, Capture, and Shoot.
- **Contextual filename** (requires GPS tagging): Lets you adjust the filename based on contextual information, such as your current GPS location.
- **Save as flipped**: Flips the images from the front camera left-to-right so photos and videos are oriented as though they were recorded by the rear camera.
- **Storage**: Choose to store your pictures and videos in Phone memory or on an optional Memory card.
- **Reset**: Returns all settings to factory default values.

City ID

Subscribe to City ID to display city and state for incoming calls, and to look up city and state information for phone numbers.

- From the **Applications** menu, touch **City ID**.

Clock

The Clock application includes these features:

- **Alarm**: Create alarms to go off once, or to repeat.
- **World clock**: Display the time and date in any time zone.
- **Stopwatch**: Record lap times.
- **Timer**: Measure elapsed time.
- **Desk clock**: Choose whether the clock calendar and weather appears on the display, and what outputs are active, when you connect your phone to an optional dock.

- From the **Apps** screen, touch **Clock**.

Alarm

This feature lets you set an alarm to ring at a specific time.

1. From the Clock screen, touch **Alarm** ➔ **Create alarm**. The following options are available:
   - **Time**: Touch **Up** or **Down** to set the time for the alarm to sound. Touch **AM** or **PM**.
   - **Alarm repeat**: Use this option to set the repeating status for the alarm by tapping one the days that you want the alarm to sound. Touch the Repeat weekly checkbox to have the alarm repeat weekly.
   - **Alarm type**: Sets the way in which the alarm sounds when activated (Melody, Vibration, Vibration and melody, and Briefing).
   - **More**: Displays the following additional options:
     - **Alarm tone**: sets the sound file which is played when the alarm is activated. Select an option or tap Add for additional options.
     - **Alarm volume**: drag the slider to adjust the alarm's volume.

– **Location alarm**: When activated, the alarm only sounds when you are at a specific location. Touch and slide the slider to the right to turn it on ON then follow the on-screen instructions to enter a location.

– **Snooze**: Use this option to set Snooze Interval (3, 5, 10, 15, or 30 Minutes) and Snooze repeat (1, 2, 3, 5, or 10 Times). Tap the ON/OFF slider to activate.

– **Smart alarm**: Tracks body movements and calculates the best time for sounding the alarm. Place the phone somewhere on your bed then the phone's movement sensor (also known as accelerometer) is sensitive enough to work from any part of the bed. Set the Interval and the Tone. Tap the ON/OFF slider to activate.

– **Name**: Lets you use a specific name for the alarm. The name will appear on the display when the alarm activates.

2. Touch **Save** to store the alarm details.

Turning Off an Alarm

- To stop an alarm when it sounds, touch and sweep the ⊗ icon to the right.

Setting the Snooze Feature

- To activate the Snooze feature after an alarm sounds, touch and sweep the zz icon to the left. Snooze must first be set in the Alarm settings. (For more information, refer to *"Alarm"* on page 95.)

Deleting Alarms

To delete multiple alarms, follow these steps:

1. From the Clock screen, touch **Alarm** ➔ **Menu** ➔ **Delete**.
2. Touch the alarm or alarms you wish to delete. A green check mark will appear next to each selection.
   To delete all alarms, touch **Select all**.
3. Touch **Delete**.

To delete a single alarm:

1. From the Clock screen, touch **Alarm**.
2. Touch and hold on the alarm you want to delete. A pop-up menu appears.
3. Touch **Delete**.

World Clock

World Clock allows you to view the time of day or night in other parts of the world. World Clock displays time in hundreds of different cities, within all 24 time zones around the world.

1. From the Clock screen, touch **World Clock**. The clock for your time zone appears.
2. Touch **Add city** to add another city to the World Clock.
3. Scroll through the list of cities to find the city you want to add, or tap the Search bar and use the keypad to enter a city to search for.
4. Touch the city you want to add. The clock for that city will display.
5. To set Daylight Savings time, press and hold a city, then touch **DST settings**.
6. Select **Automatic**, **Off**, or **1 hour**.
7. If Daylight Savings Time is selected, a sun symbol on the World Clock listing will appear.

Deleting a World Clock Entry

1. From the Clock screen, touch **World Clock** ➔ **Menu** ➔ **Delete**.
2. Touch and hold the city clocks you wish to delete.
3. Touch **Delete**.

Stopwatch

You can use this option to measure intervals of time.

1. From the Clock screen, touch **Stopwatch**.
2. Touch **Start** to start the stopwatch and touch **Lap** to mark a unit of time per lap.
3. Touch **Stop** to stop the stopwatch.
4. Touch **Restart** to continue or touch **Reset** to erase all times recorded.

Timer

You can use this option to set a countdown timer. Use a timer to count down to an event based on a preset time length (hours, minutes, and seconds).

1. From the Clock screen, touch **Timer**.
2. The **Minutes** field is highlighted and set to 1 minute. Use the keypad to set the number of minutes you want.
3. Touch the **Hours** field to set hours if desired. As you touch different fields, they will become highlighted.
4. Touch the **Seconds** field to set seconds.
5. Tap **Start** to begin the timer, and touch **Stop** to pause the timer.
6. After stopping, touch **Restart** to continue, or touch **Reset** to reset the timer back to the original setting.

Desk clock

You can use the Desk clock when you have a desk dock and you want your phone to display the time, day, date, location, and weather conditions when it is docked.

1. From the Clock screen, touch **Desk clock**.
   The default Desk clock is displayed.
2. Tap to display the Desk clock in full-screen mode.
3. To make changes, touch **Menu** ➔ **Settings**.
4. The following options are displayed while in full-screen mode:
   - **Hide status bar**: When this is checked, the status bar is hidden from view.
   - **Wallpaper**: Tap to select Desk clock wallpaper from Default, Gallery, or Same as home screen.
   - **Calendar**: When this is checked, the calendar is displayed. Tap to uncheck.
   - **Weather**: When activated, the location, temperature, and weather condition are displayed. Touch and slide the slider to the right to turn it on

.

- **Dock**: Lets you set your Dock settings such as Dock sound, Audio output mode, Desk home screen display, Automatic unlock, and Audio output.

Contacts

Contacts lets you access and manage your Contacts list, Contacts Groups, Favorites list, and Speed dial settings. (see *"Contacts"* on page 53.)

- From the **Apps** screen, touch **Contacts**.

Downloads

View and manage files and other items you download to your phone.

1. From the **Apps** screen, touch **Downloads**.
2. Touch an item to open it (if an appropriate application is installed.)

Note: Applications you download from Google Play™ Store are managed with the Play Store app, and do not appear in **Downloads**.

Dropbox

Dropbox is a "cloud" file storage service. The Dropbox app lets you create an account with Dropbox or link with your existing Dropbox account. (For more information, refer to https://www.dropbox.com/.)

- From the **Apps** screen, touch **Dropbox**.

Email

Send and receive email using popular email services. (For more information, see *"Email"* on page 80.)

- From the **Apps** screen, touch **Email**.

Flipboard

The Flipboard application creates a personalized digital magazine out of information being shared with you. Access news stories, personal feeds and other related material. Flip through your Facebook news feed, tweets from your Twitter account, photos from friends, and much more.

- From the **Apps** screen, touch **Flipboard**.

Gallery

The Gallery is where you view photos and videos. For photos, you can also perform basic editing tasks, view a slideshow, set photos as wallpaper or contact image, and share as a picture message.

Note: You can increase Gallery photo and video storage by installing a memory card. (For more information, refer to *"Installing a Memory Card"* on page 9.)

1. From the **Apps** screen, touch **Gallery**.
   All of the Albums that hold your pictures and videos will be displayed with folder name(s) and number of files.
2. Touch an Album and thumbnails of the contents will be displayed.

Tip: If your device indicates that memory is full when you access Gallery, use the **My files** app to delete some of the files, and try again. (For more information, refer to *"My Files"* on page 113.)

Gallery options

- From the Gallery screen, touch **Menu** for options:
  - **Select album**: Mark one or more albums for copying, moving, and so on.
  - **Slideshow**: View all of your pictures as a slideshow.
  - **Content to display**: Choose which image and/or video albums and files are listed (All content, Content in device, Content in Dropbox, Content in Facebook, and/or Content in Picasa).
  - **Scan for nearby devices**: Scan for in-range devices that can be connected with and sent the current image.
  - **Settings**:
    - **Accounts**: Lists account(s) with which your Gallery contents is synchronized.
    - **SNS data management**: Choose whether to Synch only via Wi-Fi.
    - **Tags**: Choose whether to turn Tag buddy on or to enable Face tag.
  - **Help**: Provides instructions on using Gallery features.

Viewing Pictures

1. From the Gallery screen, select an album, then touch a picture to view it.
2. While viewing a picture, touch on the screen or touch **Menu** for options.
   - Touch **Camera** to return to the Camera viewfinder screen.
   - Touch **Share** to send the picture using Group Play, Dropbox, Flipboard, Picasa, Google+, S Memo, Bluetooth, Wi-Fi Direct, Messaging, Gmail, or Email.
   - Touch **Menu** for additional options.

Viewing Videos

1. From the Gallery screen, then select an album. A matrix or list of available videos appears.
2. To play a video, touch its thumbnail or list entry.
3. The following options are available:
   - Touch **Camera** to take pictures or record videos.
   - Touch **Share** to send the picture using Dropbox, Picasa, Google+, Bluetooth, Wi-Fi Direct, Messaging, YouTube, Gmail, or Email.
   - Touch **Menu** for the following additional options:
     - **Delete**: Erase the video.
     - **Rename**: Change the video's filename.
     - **Details**: View information about the video.

Sharing Using S Beam

You can also share Gallery photos and videos with compatible devices using S Beam. (For more information, refer to *"S Beam"* on page 135.)

Gmail

Send and receive emails via Gmail, Google's web-based email.

(For more information, see *"Gmail"* on page 81.)

- From the **Apps** screen, touch **Gmail**.

Google

Use Google to search the Web.

Tip: The Google Search Widget is available by default on the Home screen. (For more information Widgets, see *"Adding Widgets to the Home screen"* on page 39.)

1. From the **Apps** screen, touch **Google**.
2. Enter search criteria. Search results display automatically. Touch a search result to display it in a browser window.

Google+

Stay connected and share life as it happens with Google+ on your device. Join a Hangout, post a photo, or see what friends are sharing while you're on the go.

- From the **Apps** screen, touch **Google+**.

Group Play

Using Group Play, you can share documents or photos you are viewing, or music you are listening to, with other devices connected to the same Wi-Fi network with your device.

1. From the **Applications** screen, touch **Group Play**. The **Welcome to Group Play!** screen appears.
2. For instructions on using Group Play, touch **Next**.

Help

Use Help to read or view brief instructions or videos on how to use the features and settings available with your phone.

1. From the **Applications** screen, touch **Help**. The **Help** screen appears.
2. Select a topic from the menu.
3. Read or view the selected topic information.

Internet

Your phone is equipped with a full HTML Browser, which allows you to access the internet.

- From the Home screen, select **Internet**. Your Wireless Provider's mobile home page appears in the Internet screen.

Navigating the web

Selecting items on a page

While browsing web pages, use gestures and menus to navigate:

- Touch an item to select it.
- Touch a hyperlink to follow the link.
- Touch and hold on a hyperlink for options.

Command Keys

- Touch **Backward** to return to the previous page.
- To go to the next page, touch **Forward**.

Touching and dragging

- Touch and drag your finger on the screen to navigate pages, and to reposition pages within the screen.

Entering text in a field

- While browsing, touch a text field to display the virtual QWERTY keyboard to enter text.

Zoom

Note: Some web pages do not support the Zoom function.

- Using two fingers, make a pinch motion on the screen.
  - Pinch in to zoom in on a web page.
  - Pinch out to zoom out on a web page.
- To return a web page to original size, double tap on it.

Entering a URL

Access a web site quickly by entering the URL.

1. Touch the **URL** field at the top of the Internet screen, then enter the URL using the virtual QWERTY keyboard. If the **URL** field is not visible, touch and swipe downward until the **URL** field appears.
2. As you enter characters, potential matches display. Continue entering characters, or touch a match to complete the URL, then touch **Go** to load the page.

Copying text

Copy information from a web page.

1. From the Internet screen, browse to the desired web site.
2. Touch and hold on the text to enable the text selector, then use the on-screen tools.

Browser Options

- From the Internet screen, touch **Menu** for options:
  - **New window**: Displays a new window so you can browse multiple URLs. (For more information, refer to *"Using Browser Windows"* on page 105.)
  - **Add bookmark**: Lets you add a URL to your bookmark list
  - **Add shortcut**: Lets you add a shortcut to your Home screen.
  - **Save page**: allows you to store the current page in memory so that it can be read later even if you loose your Internet connection.
  - **Share via**: Lets you share the page using Bluetooth, ChatON, Dropbox, Email, Google, Google+, Messaging, S Memo, or Wi-Fi Direct.
  - **Find on page**: allows you to search in the current page.
  - **Incognito mode**: Blocks your web browsing and searches from being saved in History, and blocks web pages from downloading traces to your browser, such as cookies.
  - **Saved pages**: Contains web pages you have saved using the Save page option.
  - **History**: Displays your browsing history.
  - **Desktop view**: When enabled, displays the current page in the desktop view (that is, to closely mimic the display as it would appear on a desktop computer).
  - **Brightness**: Lets you manually adjust screen brightness or select Automatic screen brightness.
  - **Print**: Lets you print the screen or web page on a Samsung printer using Wi-Fi.
  - **Settings**: Lets you tailor the Internet browser to suit yourself.
  - **Help**: Lets you view additional information concerning the Internet application

Using Browser Windows

You can have multiple windows open at one time, and you can switch between windows.

- To open a new window, on the Internet screen, touch **Windows** ➔ **New window**.
- To switch to another open window, touch **Windows**. Touch and swipe to the desired window thumbnail, then touch it to display the window.
- To close a window, touch **Windows**. Touch **Close** beside a window to close it.

Going Incognito

The Incognito feature lets you view Internet sites without leaving records in your browser history or search history, and without traces (such as cookies) being stored on your device.

Note: Any downloaded files will be preserved and will stay on your device after you exit the incognito mode.

To add an Incognito window:

1. From your browser window, touch **Windows** ➔ **Menu** ➔ **New incognito window**.
2. A new Incognito window appears.

Note: The incognito icon appears in the upper-left of the new browser window while you are in this mode.

3. Browse to the desired web site(s).

To exit from the incognito window:

1. From your browser window, touch **Windows**.
2. Scroll across the available windows and locate the Incognito window.
3. Touch next to the incognito window to delete it.

Using Bookmarks

While browsing, bookmark a site to quickly access it later.

Creating a bookmark

1. From the Internet screen, browse to the desired web site, then touch **Bookmarks** ➔ **Add bookmark**. The **Add bookmark** screen appears.
2. Edit the **Title** and **Address** of the new bookmark as needed, then select the account where you want it saved.
3. Touch **Save** to save the new bookmark.

Accessing bookmarks and history

Launch a bookmarked page, or reload recent pages.

1. From the Internet screen, touch **Bookmarks**.
2. On the tabs, use these options:
   - Touch an item to load the page.
   - Touch and hold on an item for options.
   - Touch **Menu** for more options.

Deleting Bookmarks

1. From the Bookmarks page, touch and hold the bookmark you want to delete.
2. Touch **Delete bookmark**.
3. In the **Delete** confirmation pop-up, touch **OK**.

Local

Find places of interest near your current location or a specified locations.

Note: To use Local, enable location services. (For more information, refer to *"Location services"* on page 191.)

1. From the **Apps** screen, touch **Local**.
2. For more information, touch **Menu** ➔ **Help**.

Maps

Use Google Maps to find your current location, get directions, and other location-based information. The Google Maps shortcut appears by default on the Home screen.

Note: You must enable location services to use Maps, and some features require Standalone or Google location services. For more information, see *"Location services"* on page 191.

1. From the **Apps** screen, touch **Maps**.
2. For more information, touch **Menu** ➔ **Help**.

Messaging

Messaging lets you exchange text and multimedia messages with compatible device users. (For more information, refer to *"Messaging"* on page 75.)

- From a Home screen, touch the **Messaging** shortcut.

  – or –

  From the **Apps** screen, touch **Messaging**.

Mobile TV

You can watch television shows on your device. Select from a list of options.

- From the **Apps** screen, touch **Mobile TV**.

Important! After a trial period, charges for service apply. Contact your Wireless Provider for details.

mobiTiles

mobiTiles provides a customizable news digest and article source.

- From the **Apps** screen, touch **mobiTiles**.

Music

Music is an application that can play music files. The music player supports files with extensions AAC, AAC+, eAAC+, MP3, and WMA. Launching Music lets you navigate through your music library, play songs, and create playlists (music files bigger than 300 KB are displayed).

Playing Music

1. From the **Apps** screen, touch **Music**.
2. Touch a library category tab at the top of the screen (**Songs**, **Playlists**, **Albums**, **Artists**, **Music square**, or **Folders**) to view the available music files.
3. Scroll through the list of songs and touch an entry to begin playback.

   To launch the full music player screen, touch .

   The following Music controls are available:

   - Pause the song.
   - Start the song after being paused.
   - Press and hold to rewind the song. Touch to go to previous song.
   - Press and hold to fast-forward the song. Touch to go to next song.
   - Volume control.
   - Repeat one: Repeats the song currently playing.
   - Repeat all: Replays the current list when the list ends.
   - Play All: Plays the current song list once.
   - Shuffle On: The current list of songs is randomly shuffled for playback.
   - Shuffle Off: Songs are not shuffled but play in listed order.
   - Music square: Play songs linked to buttons in a 5x5 matrix and categorized according to four criteria.
   - Music list: Returns you to the current playlist.

Tip: When you're playing music in the background, playback controls are available on Notifications. (For more information, see *"Notifications"* on page 32.)

Music square

Music square analyzes your music files (a minimum of 25 files) and assigns them to playlists linked to buttons in a 5x5 matrix according to the following criteria:

- **Moods** (Exciting, Passionate, Joyful, Calm)
- **Years** (Exciting, Old, New, and Calm)

1. From the **Apps** screen, touch **Music**.
2. Touch the **Music square** tab.
3. Touch → **Library update**.
4. Select a playlist based on mood or age of the song.

Music Options

To access additional options, follow these steps:

- While in the Music player screen, touch **Menu**. The follow options are available:
  - **Via Bluetooth**: Scans for devices and pairs with a Bluetooth headset.
  - **Share muisc**: Share your music with other devices using Bluetooth, Dropbox, Email, Gmail, Group Play, Messaging, or Wi-Fi Direct.
  - **Add to playlist:** Add the current music file to a selected playlist.
  - **Set as:** Choose whether to play music file From the beginning or choose Auto recommendations to play the best part. Set a music file as the Phone ringtone, as a Caller ringtone, or as the Alarm tone.
  - **Show Music view**: Add a volume trace to the player screen.
  - **Scan for nearby devices**: Search for nearby Wi-Fi devices for sharing your music (available when Wi-Fi is turned On). (For more information, refer to *"Turning Wi-Fi On"* on page 126.)
  - **Settings**: Change your Music Player settings. For more information, refer to *"Music app Settings"* on page 111.

- **Details**: View media information such as Artist, Title, Biography, and so on.
- **End**: Close the Music app.

Music Square Options

To access additional options, follow these steps:

- From the Music square screen, touch **Menu**. The follow options are available:
  - **Help**: Adds the current music file to the Quick list.
  - **Library update**: Analyzes your music files and assigns them to playlists linked to playlist selection buttons.
  - **Change horizontal axis**: Select Mood or Years.
  - **Scan for nearby devices**: Search for nearby Wi-Fi devices for sharing your music (available when Wi-Fi is turned On). (For more information, refer to *"Turning Wi-Fi On"* on page 126.)
  - **Settings**: Change your Music Player settings.(For more information, refer to *"Music app Settings"* on page 111.)
  - **End**: Close the Music app.

Music app Settings

The Music app Settings menu allows you to set preferences for the music player such as whether you want the music to play in the background, sound effects, and how the music menu displays.

- While in the Music app, touch **Menu** ➔ **Settings**. The follow settings are available:
  - **SoundAlive**: Set a type of equalization such as Normal, Pop, Rock, Jazz, Dance, Classic, and so on.
  - **Adapt Sound**: Set to On to adapt sound to headphones.
  - **Play speed**: Set the play speed anywhere between 0.5X and 2.0X using the slider.
  - **Music menu**: Select which categories you want to display in the Music menu. Choices are: Albums, Artists, Genres, Music square, Folders, Composers, Years, Most played, Recently played, or Recently added.
  - **Music auto off**: When activated, music will automatically turn off after a set interval.
  - **Lyrics**: When activated, the lyrics of the song are displayed if available.
  - **Smart volume**: Keeps volume at the same level.
  - **Voice control**: Use voice commands to control music player.

Using Playlists

Playlists are used to assign songs to a list of preferred media which can then be grouped into a list for later playback. These Playlists can be created via either the handset's Music Player options menu or from within a 3rd party music application (such as Windows Media Player) and then downloaded to the handset.

Creating a Playlist

1. From the **Apps** screen, touch **Music**.
2. Touch the **Playlists** tab.
3. Touch **Menu** ➔ **Create playlist**.
4. Enter a name for this playlist in the field and touch **OK**.

Adding Music to a Playlist

To add files to the playlist:

1. From the **Apps** screen, touch **Music**.
2. Touch the **Playlists** tab.
3. Touch the playlist name in which to add music.
4. Touch **Add music**.
5. Touch a music file, or touch **Select all** to add all the music tracks to this playlist then touch **Done**.

Removing Music from a Playlist

To remove music files from a playlist:

1. From the **Apps** screen, touch **Music**.
2. Touch the **Playlists** tab.
3. Touch the playlist name in which to delete music.
4. Touch **Menu** ➔ **Remove**.
5. Touch the check box to the left of each track you want to remove from this playlist, or touch **Select all** to remove all the music tracks from this playlist, then touch **Remove**.

Editing a Playlist Name

Besides adding and removing music files in a playlist, you can also rename the playlist.

To edit a playlist:

1. From the **Apps** screen, touch **Music**.
2. Touch **Playlists**.
3. Touch **Menu** ➔ **Edit title**, then touch the playlist you want to rename.
4. In the **Edit title** window, enter a new name for the playlist, then touch **OK**.

For information on downloading music for your phone, see *"Connecting as a Storage Device"* on page 130.

Setting a Song as a Ringtone

You can set a song as a ringtone for all voice calls, for calls from an individual contact, or as an alarm tone.

1. From the **Apps** screen, touch **Music**.
2. Touch and hold on a song, then touch **Set as** and choose from these options:
   - **Phone ringtone**: Set the song as the default ringtone for all incoming voice calls.
   - **Caller ringtone**: Choose a contact to set the song as the ringtone for calls from the contact.
   - **Alarm tone**: Set the song as the alarm ringtone for a new alarm, or for an existing alarm.

My Files

Find, view and manage files stored on an installed memory card. If the file is associated with an application on your phone, you can launch the file in the application.

1. From the **Apps** screen, touch **My Files**.
2. Touch a folder and scroll down or up until you locate a file.
3. Touch a file to launch it in the associated application (if the file is associated with an application).
4. While browsing files, use these controls:
   - Touch **Home** to go back to the root directory.
   - Touch **Up** to go back up to a higher directory.
   - Touch **Menu** for options.

Navigation

Use Google Navigation to search for locations, and get turn-by-turn directions.

Note: You must enable location services to use Navigation, and some features require Standalone or Google location services. For more information, see *"Location services"* on page 191.

- From the **Apps** screen, touch **Navigation**.

Optical Reader

Use Optical Reader to scan printed text into a Note.

- From the **Apps** screen, touch **Optical Reader**.

Phone

The Phone application allows you to access the dialer keypad, call logs, and favorites. For more information, refer to *"Calling"* on page 63.

- From a Home screen, touch the **Phone** shortcut.

  – or –

  From the **Apps** screen, touch **Phone**.

Play Books

Google Books is now Google Play™ Books. Discovering your favorite books and authors has never been easier. With Google Play Books, you can shop the world's largest selection of ebooks and read them anywhere you like - on a tablet, phone, ereader, or the Web.

- From the **Apps** screen, touch **Play Books**.

Play Magazines

With Google Play Magazines, you can subscribe to your favorite magazines and have them available to read on your phone at any time or any place.

- From the **Apps** screen, touch **Play Magazines**.

Play Movies & TV

With Google Play Movies, you can rent thousands of different movies. You can watch instantly, or download your movie for offline viewing at a later time.

1. From the **Apps** screen, touch **Play Movies & TV**.
2. Log on to your Google account if you have not already done so.
3. Following the on-screen instructions for renting and viewing movies.

Play Music

With Google Play Music, you can play music that you have added to your music file as well as any music you copied from your PC. While offline, you can listen to music you have copied from your PC.

1. From the **Apps** screen, touch **Play Music**.
2. Follow the on-screen instructions to locate and play music.

Play Store

Android Market is now Google Play™ Store, where all your favorite books, movies, apps, and games are all in one place that's accessible from the Web and your Android device. You'll need to have a Google account set up on your phone to download a new application.

1. From the **Apps** screen, touch **Play Store**.
2. The first time you open Play Store, read the Terms of Service, then touch **Accept** to continue.
3. Browse for applications to download, then follow the prompts.

POLARIS Office 5

POLARIS™ Office 5 is a Microsoft Office®-compatible office suite, that provides a central place for managing your documents, spreadsheets, and presentations on and off line.

- From the **Apps** screen, touch **POLARIS Office 5**.

S Health

Use S Health to manage your wellness. S Health records activity level, food consumption, and other health-related information from external devices, such as blood glucose level, blood pressure, and weight.

- From the **Apps** screen, touch **S Health**.

S Memo

The S Memo application allows you to create memos using the keypad, your finger, or both. You can add images, handwriting, voice recordings, and typewritten text all in one place.

1. From the **Apps** screen, touch **S Memo**.
2. Review the **Learn about actions** information pop-up to learn more about S Memo.

S Translator

Use S Translator to translate text speech composed of any of 9 written or spoken languages to or from UK English or US English.

1. From the **Apps** screen, touch **S Translator**.

S Voice

S Voice provides plain language voice recognition control of various features and applications on your phone.

1. From the **Apps** screen, touch **S Voice**.

   – or –

   From the Home screen, press **Home** twice in quick succession.
2. Read the Samsung Disclaimer then touch **Confirm** to continue.
3. Read the Vlingo Terms of Service then touch **Agree** to continue.
4. Read the information on the **About S Voice** screen, then touch **Next**.
5. Read the information on the **Say what you want** screen, then touch **Next**.
6. Read the information on the **Wake up S Voice** screen, then touch **Next**.
7. Read the information on the **Edit what you said** screen, then touch **Next**.
8. Read the information on the **Help** screen, then touch **Finish**.
9. At the S Voice screen, say “Hi Galaxy” to wake up S voice.
10. Speak into the phone and follow the on-screen instructions.

Samsung Apps

Samsung Apps allows you to easily download many different types of applications to your phone. You can download games, news, reference, social networking, navigation, and other applications.

1. From the **Apps** screen, touch **Samsung Apps**.
2. Read the Disclaimer, Terms and conditions, and Privacy policy and tap **Accept** to continue.
3. Follow the on-screen instructions to use Samsung Apps.

Samsung Hub

Browse and purchase Music, Video, Books, or Games using Samsung Hub.

Samsung Hub Notices

Any media item (Media Content) may be rented or purchased after you create an account in Samsung Hub.

Media Content that is purchased and downloaded may be viewed concurrently on up to five (5) devices with Samsung Hub (or "the service") that are also registered to the same account.

You may remove a device from your account no more than once every 90 days.

You may remove Media Content from a device as many times as you'd like. You will have the ability to re-download the Media Content later subject to content re-download availability and content provider permissions.

You may need network coverage to access Media Content you have acquired through the Service.

You can use 3G, 4G, or Wi-Fi connectivity to download Media Content.

Unlike purchased Media Content, rented Media Content will be viewable on only 1 device in your account at a time.

Media Content is downloaded and saved to your authorized device's SD card. No SD Card included out of box.

Your Media Content may pause/stop or not download in networks where there is a weak signal.

You may begin watching downloaded Media Content as soon as a) license acquisition has occurred and b) sufficient amount of the Media Content has been buffered.

You must finish watching Media Content within the time limit set out for each piece of content (which may be as short as 24 consecutive hours).

Stopping, pausing or restarting rented Media Content does not extend the available viewing time.

In no event will rented Media Content be available for a period of more than thirty (30) days (or shorter on a title-by-title basis) after the Media Content has been rented (e.g., if you begin viewing rented Media Content on the 29th day after the rental transaction, but do not finish viewing the entire title, that rented Media Content may not be available for the entire twenty-four (24) consecutive hour period if such period would extend the viewable time beyond the thirty (30) day rental window).

Unless otherwise restricted by the Content Providers, you can download Media Content to your TV using HDMI connections; otherwise, you cannot play Media Content downloaded from your mobile device output.

1. From the **Apps** screen, touch **Samsung Hub**.
2. Select Music, Video, Books, or Games from the Samsung Hub screen.
3. Follow the on-screen instructions to browse, view, or purchase media.
4. Press **Menu** → **Help** for more information.

Samsung Link

Samsung Link is a smart remote that allows you to use your phone to control your TV and other devices.

1. From the **Apps** screen, touch **Samsung Link**.
2. Touch **Sign in** to sign in to Samsung Link.
3. Touch **Sign in** again and sign in to your Samsung account.
4. Follow the on-screen instructions.

Settings

Configure your phone to your preferences. For more information, see *"Settings"* on page 139.

- From the **Apps** screen, touch **Settings**.

Slacker Radio

Listen to your Slacker Radio station on your device.

1. From the **Apps** screen, touch **Slacker Radio**.
2. Begin selecting the music you want to listen to.

Important! To use some features of this service, you must register with the service.

Story Album

Create an album with your story on one timeline.

- From the **Apps** screen, touch **Story Album**.

Talk

Use Google Talk to chat with other Google Talk users. For more information, see *"Google Talk"* on page 82.

- From the **Apps** screen, touch **Talk**.

Tone Room Deluxe

Find, purchase, and download Ringtones and Ringback Tones.

- From the **Apps** screen, touch **Tone Room Deluxe**.

TripAdvisor

TripAdvisor allows you to access traveler reviews and opinions on hotels, restaurants and more. You can also compare prices and check availability on hotels, flights, car rentals and more.

Note: This application requres a Samsung account sign in to access its features.

- From the **Apps** screen, touch **TripAdvisor**.

Video

Video identifies and plays video files (3GP or MP4) stored on your phone or on an optional microSD Memory card.

1. From the **Apps** screen, touch **Video**.
2. Select a video from those listed, if any. (For information on downloading videos from Samsung Hub, see *"Samsung Hub"* on page 117.)
3. Touch **Menu** for additonal options.

Voice Recorder

Record your voice or other sounds, and share recordings via Bluetooth, Messaging, or Gmail.

- From the **Apps** screen, touch **Voice Recorder**.

Voice Search

Voice Search offers voice-activated Google searches. If you agree, Voice Search uses your location to improve search results and offer other services.

- From the **Apps** screen, touch **Voice Search**.

VPN Client

VPN Client lets you define multiple Virtual Private Networks (VPNs) to your device and connect to them as needed by simply selecting a connection from the VPN Client list.

- From the **Apps** screen, touch **VPN Client**.

WatchON

Use the Samsung WatchON application to use your phone as a remote control for your TV, set top box, DVR, Blu-Ray/DVD, stereo or other device.

1. From the **Apps** screen, touch **WatchON**.
2. Configure these options:
   - **Select a country** and tap **Next**.
   - **Enter your zip code**: The zip code must match your current location. Tap **Done**.
3. Select a service provider from the **Find your TV service** screen.

Configure your Device as a Remote

1. Touch **Remote Control**
2. Touch **Set up now** at the prompt.
3. Select your TV's manufacturer name from the **Select your TV Brand** screen.

   – or –

   Touch the **Show other brands** or **I have a projector** button if you own a TV brand or projector other than those listed.
4. Aim your device at the TV and tap **Power** to turn on your TV with the remote.
5. Tap **Yes** if the TV turned on.

   – or –

   Tap **No**, or **Retry** if the TV did not turn on.
6. Select your current channel control method:

If Connected Directly to a TV

- Select **My xxx TV**: select when a signal is directly connected to the tv.

If Connected through a Set Top Box

1. Select **Cable/Satellite/STB/PVR/DVR**.
2. Configure your set top box for IR communication with this device.
3. Tap **More Info...** to view a tutorial on configuring the set top box for IR controls.
4. Select the Satellite Box Brand from the list.

Wi-Fi Now

Wi-Fi Now simplifies accessing Wi-Fi networks.

- From the **Apps** screen, touch **Wi-Fi Now**.

Your Navigator Deluxe

Provides all the features of an advanced car navigation system. Obtain turn-by-turn driving directions with GPS accuracy. Search for any destination (including gas stations, ATMs, restaurants, and more). View detailed maps of any location.

Important! Your Navigator Deluxe requires you to activate the GPS location function on your phone. (For more information, refer to *"Location services"* on page 191.)

1. From the **Apps** menu, touch **Your Navigator Deluxe**.

Note: If the GPS location function on your phone is inactive, follow the prompts to activate it. (For more information, refer to *"Location services"* on page 191.)

Tip: The first time you launch Your Navigator Deluxe, your phone downloads Your Navigator Deluxe updates and applications not included with Your Navigator Deluxe to save storage. Activating Wi-Fi can save data charges during this download. (For more information, refer to *"Wi-Fi"* on page 126.)

2. From the Your Navigator Deluxe Home screen select one of the following options:
   - **Drive To**: Obtain turn by turn directions to an address, airport, contact address, and more.
   - **Places**: Search for nearby businesses, the cheapest gas prices, and more.
   - **Maps & Traffic**: View your current location on a map and any traffic in the area.
   - **Local Apps**: Launch applications that enhance Your Navigator Deluxe sessions.

YouTube

Access your YouTube™ account, and view and upload YouTube videos, right from your phone.

- From the **Apps** screen, touch **YouTube**.

Accessing Widgets

1. Press **Home**, then Sweep your finger right or left to scroll to a particular Home screen panel.
2. Touch **Apps**, then the **Widgets** tab. The **Widgets** screen appears in the display.

   – or –

   Touch and hold on the displayed **Home screen** panel until the Home screen menu pops-up, then touch **Add to Home screen → Apps and widgets**, then the **Widgets** tab. The **Widgets** screen appears in the display.
3. Sweep your finger right or left to scroll through the Widgets screens and find the desired widget.
4. To place a widget on the selected Home screen panel, touch and hold the widget's image or icon, then position the widget on the Home screen panel.
5. If needed, follow any prompts to configure the widget.

Widgets List

The following widgets are available for executing on your Home screen:

- **Active Apps Manager 2 x 1**:
- **Alarm 4 x 1**: Add, view, and manage alarms you set using this widget or using the Clock application.
- **Assistive Light 2 x 1**: Use your phone's flash as a flashlight.
- **Book 1 x 1**: Directly access one of your downloaded electronic books from **Play Books**.
- **Bookmark 1 x 1**: Directly access a selected Internet browser bookmark.
- **Bookmarks 3 x 2**: Directly access any of four selected Internet browser bookmarks.
- **Briefing 4 x 2**: View and directly access either of two events.
- **Calendar 2 x 3**: View your Calendar events scheduled for today.
- **Calendar (mini today) 4 x 2**: View and access your Calendar events scheduled for today.
- **Calendar (month) 4 x 4**: View and access your scheduled Calendar events, one month at a time.
- **Clock (digital) 4 x 1**: View a digital clock-calendar.
- **Clock (digital) 2 x 1**: View a digital clock-calendar.

- **Contact 1 x 1**: Directly access a selected contact for calls or messaging.
- **Direct Dial 1 x 1**: Immediately call a selected contact.
- **Direct Message 1 x 1**: Immediately send a message to a selected contact.
- **Directions & Navigation 1 x 1**: Immediately obtain directions to a selected location.
- **Dropbox Folder 1 x 1**: Directly access one of your Dropbox folders.
- **Dual clock (digital) 2 x 2**: View digital clock-calendar displays for two selected locations.
- **Email 4 x 4**: View and directly access email messages in your Combined email box.
- **Exercise mate 4 x 1**:
- **Flipboard 4 x 1**: View a small image of your Flipboard "magazine".
- **Gmail 3 x 3**: View and directly access your Gmail messages.
- **Gmail label 1 x 1**: Directly access Gmail messages with a selected Gmail label.
- **Google Now 4 x 4**:
- **Google Play Books 2 x 3**: Directly access your Google books.
- **Google Play Music 4 x 1**: Directly access and play a selected music playbook.
- **Google Search 4 x 1** (transparent background): Perform and manage Internet searches.
- **Google Search 4 x 1** (opaque background): Perform and manage Internet searches.
- **Google+ posts 4 x 2**:
- **Messaging 3 x 3**: View and access your latest messages.
- **MobiTiles 2 x 2**:
- **Music 4 x 1**: Play your music purchased and downloaded from Music Hub.
- **Music playlist 1 x 1**: Play a selected music playlist.
- **My Maps 1 x 1**:
- **My Nav 1 x 1**:
- **My Places 1 x 1**:
- **Picture frame 2 x 2**: Directly access your photos and images.
- **Play - My Library 4 x 3**: Access your Google content (ebooks, music, magazines, and videos).
- **Play Recommendations 4 x 2**: View recommendations from Google Play Store.

- **Play Store 2 x 2**: View recommendations from and access Google Play Store.
- **S Bookmarks 2 x 2**: View selected bookmarks and directly access the related web sites.
- **S Memo 2 x 2**: View and access a stored memo.
- **Savanna Apps 4 x 4**:
- **Samsung Hub 4 x 4**:
- **Samsung Music 4 x 1**:
- **Settings Shortcut 1 x 1**: Directly access selected settings for your phone.
- **Simple Picture Frame 2 x 2**:
- **Slacker Radio 4 x 1**: Access your on-line radio station.
- **Software update 1 x 1**: Directly access your device software status information and access **Software update**.
- **Story Album 4 x 3**:
- **Traffic 1 x 1**: Directly access traffic information for a selected destination.
- **Travel 4 x 2**:
- **U.S. Cellular Mobile Television 4 x 2**: View and directly access a pre-selected Mobile Television channel.
- **U.S. Cellular Mobile Television 4 x 1**: Directly access a pre-selected Mobile Television channel.
- **Video 2 x 1**: Directly access and play one or more selected videos.
- **Walking mate 4 x 1**:
- **Weather 4 x 2**: View current and forecast temperature and weather conditions for a selected location.
- **Yahoo! Finance 4 x 3**: View current prices for selected stocks and/or commodities and directly access additional financial information.
- **Yahoo! News 4 x 2**: View news headlines and access full news articles.
- **Your Navigator Deluxe 4 x 3**: View and control location and directions using your Wireless Provider's GPS Navigator program.
- **Your Navigator Deluxe 4 x 1**:
- **Your Navigator Deluxe Traffic 4 x 2**: Request and view traffic information using your Wireless Provider's traffic application.
- **YouTube 3 x 2**: Receive and view suggested videos. Directly access your YouTube account.

Wi-Fi

Wi-Fi is a wireless networking technology that provides access to local area networks.

Wi-Fi communication requires access to an existing Wi-Fi network. Wi-Fi networks can be Open (unsecured), or Secured (requiring you to provide login credentials).

Your phone supports the 802.11 a/b/g/n Wi-Fi protocols.

Configuring Wi-Fi Settings

Configure your phone's Wi-Fi settings. For more information, see *"Wi-Fi Settings"* on page 142.

Turning Wi-Fi On or Off

When you turn Wi-Fi service on, your phone automatically searches for available, in-range "hotspots" [also termed WAPs (Wireless Access Points)].

Turning Wi-Fi On

1. From the top of the Home screen, sweep your finger downward to display the Notifications screen.
2. At the top of the Notifications screen, touch **Wi-Fi** to turn Wi-Fi On.

Turning Wi-Fi Off

1. From the top of the Home screen, sweep your finger downward to display Notifications.
2. At the top of the Notifications screen, touch **Wi-Fi** to turn Wi-Fi Off.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on (see *"Turning Wi-Fi On"* on page 126). Your phone scans for available hotspots and pops-up a list of any it finds.
2. To connect to a hotspot, touch it on the pop-up list.
   - If the Wi-Fi network is open, you will be automatically connected.
   - If the Wi-Fi network is secured, enter the password at the prompt to connect.

Adding a Wi-Fi Network Manually

1. From the Home screen, touch **Menu** ➔ **Settings** ➔ **Wi-Fi**. The **Wi-Fi** options screen appears. (For more information, refer to *"Accessing Settings"* on page 139.)
2. Touch **Wi-Fi** OFF to turn on Wi-Fi.
3. Touch **Add Wi-Fi network**, then enter the following values:
   - **Network SSID**: Enter the name of the WAP (Wireless Access Point).
   - **Security**: Select the type of security used by the WAP.
   - **Password**: If the WAP is secured, enter the password or key.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Establishing Wi-Fi Direct Connections

1. From the Home screen, touch **Menu** ➔ **Settings** ➔ **Wi-Fi** ➔ **Wi-Fi Direct**.

   The **Wi-Fi Direct** screen appears, and your phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.
2. To connect to a single Wi-Fi Direct device, touch its name in the list.
3. To connect to multiple Wi-Fi Direct devices, touch **Multi-connect**, next touch **Select all** or individual devices, then touch **Done**.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 218.

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet.

You don't need to line up the devices to send information with Bluetooth. If the devices are in range, you can exchange information between them, even if they are in different rooms.

Configuring Bluetooth Settings

Configure your phone's Bluetooth settings. For more information, see *"Bluetooth settings"* on page 144.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see *"Bluetooth profiles"* on page 143.

Turning Bluetooth On or Off

1. From the Home screen, sweep your finger from the top of the screen downward to display Notifications.
2. Touch **Bluetooth** to turn Bluetooth On.
   Touch **Bluetooth** to turn Bluetooth Off.

Pairing with a Bluetooth Device

Search for a Bluetooth device and pair with it, to exchange information between your phone and the device.

After pairing, your phone and the target device will connect with each other and exchange information without a passcode or PIN.

Note: When connected, the **Bluetooth connected** icon displays in the Status Bar. If you receive a new request for connection while connected with a Bluetooth headset, a new Bluetooth icon displays at the left of the Status bar and Notifications displays the connection request.

1. Activate the target device's discoverable mode.

2. On your phone, turn on Bluetooth (see *"Turning Bluetooth On or Off"* on page 128). A list of detected devices pops-up on your display.
3. From the list of detected devices, touch the target device, your phone attempts to automatically pair with the target device.

   If automatic pairing fails, then follow the prompts to complete manual pairing:

   - Enter a PIN for the target device and touch OK.

Tip: Some devices use a default passcode of 0000. Refer to the target device's user manual for more information.

   - When prompted to connect with the target device, touch **OK** to complete the connection, touch **Cancel** to retain the pairing only.

Connecting with a Bluetooth Device

1. From the Home screen, touch **Menu** ➔ **Settings** ➔ **Bluetooth**. The **Bluetooth** screen appears in the display.
2. Under **Available devices**, touch a previously paired device. The device connects with your phone.

VPN

You can use your phone's VPN (Virtual Private Network) feature to connect to VPNs.

Configuring VPN Settings

For information about configuring your phone's VPN settings, see *"VPN"* on page 151.

Accessing a VPN

1. From the Home screen, touch **Menu** ➔ **Settings**.
2. Under **Wireless and network**, touch **More settings** ➔ **VPN**. The **VPN** screen appears, listing available VPN connections.
3. Touch a VPN and follow any prompts to access the network.

PC Connections

You can connect your device to a PC using an optional PC data cable using various USB connection modes.

Storage: Lets you use the built-in mass storage and memory card capacity of the phone to store and upload files. This option lets your computer treat your phone's installed and card memory as removable storage drives.

Kies air: Lets you wirelessly synchronize files on your phone (in mass storage and on a memory card) with files on your Windows PC, provided they are both on the same Wi-Fi network.

Note: To sync your device to your PC it is highly recommended that you install Samsung Kies which is available at http://www.samsung.com/kies (for Windows/Mac).

Note: If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer. Also, ensure that you have Samsung Kies 2.5 or Windows Media Player 10 or higher installed on your computer.

Connecting as a Storage Device

You can connect your device to a personal computer, have your device appear as a removable disk, and access your device's file directory. If you insert a memory card in the device, you can also access the files directory on the memory card by using the device as a memory card reader.

Note: The file directory of the memory card displays as a removable disk, separate from the internal memory.

1. Connect the USB cable to the device and connect the cable to the computer. After a few seconds, a pop-up window displays on the PC, prompting you to choose how to access the new device.
2. On the PC pop-up, click **Open device to view files**. You can now transfer files between the PC and your phone's memory and memory card (if installed).

Kies via Wi-Fi

Kies via Wi-Fi lets you wirelessly synchronize files on your phone (in mass storage and on a memory card) with files on your Windows PC, provided they are both on the same Wi-Fi network. You can view and share call logs, videos, photos, music, bookmarks, ringtones, and even send SMS messages from your PC.

To use Kies air, follow these steps:

1. Sign onto the same Wi-Fi network from your phone and from your PC.
2. On your phone, from the Home screen, touch → **Kies via Wi-Fi**.
3. From the Kies air home screen, touch **Start**.

   A web URL is displayed on your phone screen.
4. On your PC, enter the URL in your web browser.
5. On your phone, an Access Request prompt is displayed. Touch **Allow** to continue.
6. Touch the **Remember for today** check box if you will be using Kies air with the same PC later.
7. From your PC, a security warning may be displayed asking if you want to run this application. Click **Run** to continue.
8. On your PC, the Kies air screen is displayed. On your phone, the icon appears on the Status Bar.
9. Follow the on-screen instructions to view and share information between your phone and PC.
10. To exit the Kies air application, touch **Stop** on your phone, then exit the web browser on your PC.

Tethering

Use Tethering to share your phone's internet connection with a computer connected to your device using the USB data/charging cable, or using Bluetooth.

(For more information, refer to *"Tethering"* on page 151.)

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
2. Choose a tethering method:
   - **USB tethering**: Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check appears in the check box.
   - **Bluetooth tethering**: Connect your phone with the computer using Bluetooth. Consult the computer's documentation for more information about using your computer to make a Bluetooth connect. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check appears in the check box.

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

Portable Wi-Fi Hotspot

Use Portable Wi-Fi Hotspot to share your phone's internet connection with a PC or other device through Wi-Fi, using your phone as the mobile hotspot.

Note: Portable Wi-Fi Hotspot requires a subscription to the applicable service to use the application.

Portable Wi-Fi Hotspot consumes battery power and uses data service. While the Portable Wi-Fi Hotspot is active, your phone's applications will use the Portable Wi-Fi Hotspot data feature allowance.

Configuring Portable Wi-Fi Hotspot Settings

Configure your phone's Portable Wi-Fi Hotspot settings, including your phone's name and password, and set the visibility of your phone's Wi-Fi hotspot.

Tip: By default, your device's mobile hotspot has security applied, and a password (your device's phone number) is required to connect. (For more information about configuring your mobile hotspot, see *"Portable Wi-Fi hotspot"* on page 149.)

Activating Portable Wi-Fi Hotspot

Activate your phone's Portable Wi-Fi Hotspot application to allow other devices to use your phone's internet connection.

1. From the Home screen, touch **Menu** ➔ **Settings**. The **Settings** screen appears.
2. Under **Wireless and network**, touch **More settings** ➔ **Tethering and portable hotspot** ➔ **Portable Wi-Fi Hotspot**.
3. Touch **Portable Wi-Fi Hotspot** ON and follow the prompts to turn Portable Wi-Fi Hotspot On.

Connecting a Device via Portable Wi-Fi Hotspot

Use the other device's Wi-Fi control to connect to your phone's Portable Wi-Fi Hotspot.

1. Activate Portable Wi-Fi Hotspot on your phone. (For more information, see *"Activating Portable Wi-Fi Hotspot"* on page 133.)
2. Activate Wi-Fi on the other device, using that device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your phone from the list. (To find your phone's name, see *"Configuring Portable Wi-Fi Hotspot"* on page 150.)
4. At the prompt, enter your phone's Portable Wi-Fi Hotspot password.

   By default, the password is your phone's telephone number. (For information on changing your phone's Portable Wi-Fi Hotspot password, see *"Configuring Portable Wi-Fi Hotspot"* on page 150.)

Beaming

NFC

NFC (Near Field Communication) allows data exchange when you touch your device with another compatible device. This is used for applications such as Android Beam and S Beam.

1. From the Home screen, touch **Menu**, then touch **Settings**.
1. From the **Settings** screen, touch **Connections**.
2. Under **Connect and share**:
   - Touch the **NFC** slider OFF to turn NFC ON.
   - Touch the **NFC** slider ON to turn NFC OFF.

Note: NFC must be turned ON to use **Android Beam** or **S Beam**.

Android Beam

When Android Beam is activated, you can beam application content to another NFC-capable device by holding the devices close together. You can beam browser pages, YouTube videos, contacts, and more.

Turning Android Beam On or Off

1. From the Home screen, touch **Menu**, then touch **Settings**.
2. From the **Settings** screen, touch **Connections**.
3. Under **Wireless and network**, touch **More settings**.
4. Under **Connect and share**, turn **NFC** ON. (For more information, see *"NFC"*.)
5. Touch NFC.
   - Touch the Android Beam slider OFF to turn Android Beam ON.
   - Touch the Android Beam slider ON to turn Android Beam OFF.

Using Android Beam

1. Turn **Android Beam** ON. (See *"Turning Android Beam On or Off"* .)
2. Launch the desired feature or application or browse to the desired web page (See *"Applications and Widgets"* on page 84.)
3. Place your phone back-to-back with the device to receive your "beamed" content, then touch the screen on your phone. The receiving device prompts the user to accept your "beamed" content.
4. Once the user of the receiving device accepts your "beamed" content, it appears on the screen of that device.

S Beam

When S Beam is activated, you can beam files to another NFC-capable device by holding the devices close together. You can beam images and videos from your gallery, music files from your music player, and more.

Turning S Beam On or Off

1. From the Home screen, touch **Menu**, then touch **Settings**.
2. Under **Wireless and network**, touch **More settings**.
3. Touch **NFC** to enable NFC. NFC must be enabled to use S Beam. When enabled, a check mark appears in the check box.
4. Touch **S Beam** OFF to turn S Beam On, or touch **S Beam** ON to turn S Beam Off.

Using S Beam

1. Turn **S Beam** On. (See *"Turning S Beam On or Off"* .)
2. Launch **Camera**, **Music Player**, or **Gallery** (See *"Applications and Widgets"* on page 84.) When using Gallery, you can select multiple files to S Beam.
3. Place your phone back-to-back with the device to receive your "beamed" content, then touch the screen on your phone. The receiving device prompts the user to accept your "beamed" content.
4. Once the user of the receiving device accepts your "beamed" content, it appears on the screen of that device.

Screen Mirroring

Screen Mirroring lets your phone share the contents of its display with other Digital Living Network Alliance (DLNA) certified devices, such as Smart televisions.

Note: To view more information about DLNA certified products visit http://www.dlna.org/home.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to *"Wi-Fi"* on page 126.)
2. On your phone press **Home**, then touch **Menu** ➔ **Settings** ➔ **Connections**. The **Connections** screen appears.
3. Under **Connect and share**, touch **Screen Mirroring**. The **Screen Mirroring** screen appears with **Screen Mirroring** set to ON and begins scanning for available devices. All detected DLNA certified devices are listed under **Available devices**.
4. Touch the desired device to establish a connection. You can now view the contents of your phone's display on the connected device.

Nearby devices

Share files with nearby DLNA certified devices over Wi-Fi. (For information on configuring Nearby devices, For more information, refer to *"Nearby devices"* on page 153.)

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to *"Wi-Fi"* on page 126.)
2. On your phone press **Home**, then touch **Menu** → **Settings**. The **Settings** screen appears.
3. Under **Wireless and network**, touch **More settings** → **Nearby devices**. The **Nearby devices** screen appears.
4. Touch **File sharing** to turn file sharing via DLNA On or Off. When On, a check mark appears in the check box.

Memory Card

Your phone supports removable microSD™ or microSDHC™ memory cards of up to 64GB capacity, for storage of music, pictures, videos, and other files.

Installing and Removing a Memory Card

(For more information about installing and removing a memory card, see *"Installing a Memory Card"* on page 9.)

Important! To prevent damage to information stored on the memory card, unmount the card before removing it from the phone.

Formatting a Memory Card

Use the Erase SD card setting to remove all content from an installed memory card.

1. From the Home screen, touch **Menu** ➔ **Settings**.
2. Under **Device**, touch **Storage**.
3. Under **SD card**, touch **Unmount SD card**.
4. After unmounting the SD card, touch **Format SD card**, then follow the prompts to confirm the deletion of information from the card.

Section 8: Settings

Accessing Settings

- From the Home screen, touch **Menu** ➔ **Settings**.

  – or –

  From the Home screen, touch **Apps** ➔ **Settings**.

  – or –

  Pull down the Notifications screen, then touch **Settings**. (For more information, refer to *"Notifications"* on page 32.)

  The **Settings** menu appears.

Note: This section does not include information about Call settings. (For Call settings information, see *"Call Settings"* on page 70.)

Settings Tabs

Your phone's Settings are divided into 4 main groups. When the Settings screen appears, the following 4 tabs are located at the top of the screen:

Connections: Wi-Fi, Bluetooth, Airplane Mode, Data usage, More settings, NFC, S Beam, Nearby devices, AllShare Cast, and Kies via Wi-Fi.

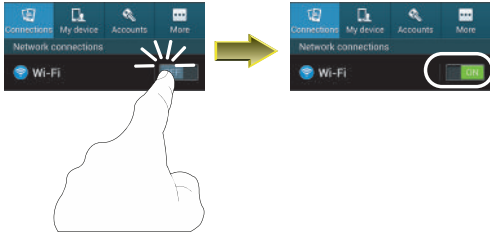
My device: Home screen mode, Call, Blocking mode, Sound, Display, Power saving mode, Lock screen, Safety assurance, Accessory, Date and time, Accessibility, Language and input, Motions, and Air view.

Accounts: Samsung account, Add account, Backup and reset.

More: Location access, Security, Application manager, Battery, Storage, and About device.

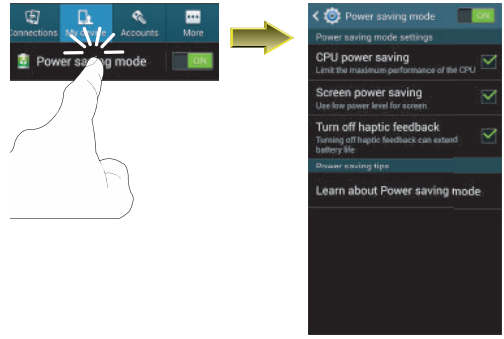
Using Setting Sliders

- To enable or disable a setting, touch the setting slider as shown.



Accessing Additional Options

- To access additional setting options, touch the setting label.



Connections

- From the **Settings** screen, touch

Connections.
The **Connections** screen appears.

Wi-Fi

Set up and manage your phone's connections to Wi-Fi networks. Your phone supports Wi-Fi a/b/g/n.

(For more information about using Wi-Fi, see *"Wi-Fi"* on page 126.)

Turning Wi-Fi On or Off

Turn your phone's Wi-Fi service on or off. When you turn Wi-Fi service on, your phone automatically searches for nearby available Wi-Fi networks.

Tip: When you turn Wi-Fi service on, your phone automatically searches for available networks and displays them.

You can also turn Wi-Fi On or Off from the Notifications panel.

Turn Wi-Fi On:

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi**

.

  – or –

  From the Home screen and others, touch and swipe the Status Bar downward, then touch **Wi-Fi**.

Turn Wi-Fi Off:

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi**

.

  – or –

  From the Home screen and others, touch and swipe the Status Bar downward, then touch **Wi-Fi**.

Wi-Fi Settings

Configure and manage connections to Wi-Fi access points.

1. From the **Connections** screen and under **Network connections**, touch **Wi-Fi**. The **Wi-Fi** options screen appears.
2. Touch options to configure:
   - **Add Wi-Fi network**: Connect to a new Wi-Fi network (see *"Adding a Wi-Fi Network Manually"* on page 127).
   - **Scan**: Search for available Wi-Fi networks.
   - **Wi-Fi Direct**: Access Wi-Fi Direct settings (see *"Wi-Fi Direct"* on page 143.)
3. Touch **Menu** to access the following additional options:
   - **Advanced**: View and configure your phone's Advanced Wi-Fi settings.
   - **WPS push button**: Record/send the signal from the Wi-Fi Protected Set-up push button on your Wi-Fi router.
   - **WPS PIN entry**: Record/send the Wi-Fi Protected Set-up Personal Identification Number for your Wi-Fi router.
   - **Help**: Provides on-line assistance to perform Wi-Fi interface tasks.

Advanced Wi-Fi settings

1. From the **Connections** screen and under **Network connections**, touch **Wi-Fi** → **Menu** → **Advanced**.
2. Configure settings:
   - **Network notification**: When enabled, your phone notifies you of nearby Wi-Fi networks when you launch a high data-usage application.
   - **Passpoint**: When set to ON, your phone automatically connects to passpoint-enabled Wi-Fi hotspots.
   - **Keep Wi-Fi on during sleep**: Specify when to switch from Wi-Fi to mobile data for data communications, when the phone goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to your phone, such as when tethering or using Mobile Hotspot.
   - **Check for Internet service**: Check whether Wi-Fi Internet service is available when connected to a W-Fi hotspot.
   - **MAC address**: (Not configurable) View your phone's MAC address, needed for connecting to some secured networks (only shows when Wi-Fi is active).
   - **IP address**: (Not configurable) View your phone's IP address (only shows when connected to a Wi-Fi network).

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi** → **Wi-Fi Direct**.

  The **Wi-Fi Direct** screen appears, and your phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.

  (For information on connecting your phone to other Wi-Fi Direct devices, see *"Establishing Wi-Fi Direct Connections"* on page 127.)

Bluetooth

Your phone supports Bluetooth® 4.0.

Bluetooth profiles

Bluetooth profiles are specifications for services supported by individual devices. Profiles improve the ability of different devices to work together. Your phone supports these Bluetooth profiles:

- **Headset**: HSP v1.2 profile supports use of compatible Bluetooth headsets for mono voice.
- **Handsfree**: HFP v1.5 profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities.
- **Stereo**: A2DP v1.2, AVRCP v1.0, GAVDP 1.2, AVCTP 1.3 and AVDTP 1.2 profiles support delivery of stereo audio to compatible Bluetooth devices.
- **Object Exchange**: OPP v1.0 profile allows sending and receiving of contact name cards (vCard 2.1) and calendar events (vCalendar) between devices. PBAP v1.2 supports exchange of Phone Book Objects.
- **Human Interface Devices**: HID v1.0 profile supports certain interface devices.

- **Personal Area Networking**: PAN 1.0 supports exchange of data with other devices.
- **Message Access Profile**: MAP 1.0 allows exchange of messages between devices, such as with an automotive hands-free device.

Turning Bluetooth On or Off

Turn Bluetooth On:

- From the **Connections** screen and under **Network connections**, touch **Bluetooth** OFF.

Turn Bluetooth Off:

- From the **Connections** screen and under **Network connections**, touch **Bluetooth** ON.

Tip: You can also turn Bluetooth On or Off at the Notifications Panel. (For more information, refer to *"Quick Settings Menu"* on page 32.)

Bluetooth settings

Pair and connect with other Bluetooth devices, manage your Bluetooth connections, and control your device's visibility to other devices.

Note: Bluetooth must be turned On to access Bluetooth settings.

1. From the **Connections** screen and under **Network connections**, touch **Bluetooth**.
2. Touch a setting to configure Bluetooth:
   - Touch **Bluetooth** OFF to turn Bluetooth On, or touch **Bluetooth** ON to turn Bluetooth Off.
   - Touch your phone's name to enable/disable its visibility to other devices' Bluetooth searches. Available when Bluetooth is On.
   - Touch **Scan** to search for visible Bluetooth devices. Touch a detected device to pair with it (see *"Pairing with a Bluetooth Device"* on page 128).
   - Touch **Menu** to access the following options:
     - **Rename device**: Change your phone's Bluetooth device name.
     - **Visibility timeout**: Select how long your phone will remain visible to other devices.

– **Received files**: Lists files received from other devices over Bluetooth connections.

– **Help**: Explains how to connect with and configure your phone's Bluetooth interface.

Data usage

Control your device's connection to your Wireless Provider's data service, and monitor your data usage.

Turning Mobile data On or Off

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Mobile data** to enable/disable access to your Wireless Provider's mobile data network. When **Mobile data** is enabled, a check mark appears in the checkbox.

Tip: You can also enable or disable Mobile data by touching the **Mobile data** Quick set button on the top of the Notifications panel. (For more information, refer to *"Quick set buttons"* on page 27.)

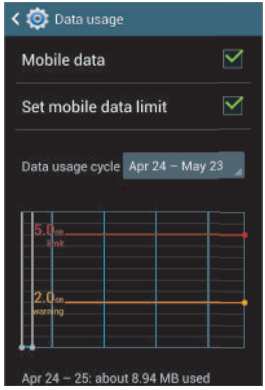
Setting a mobile data limit

Setting a mobile data limit causes your phone to automatically disable the Mobile data connection when the limit is reached. You can set a warning threshold, to have your device alert you when data usage nears your set limit.

Data usage is measure by your device, and your service provider may account for usage differently, so you may want to consider using a conservative limit. Contact your service provider for more information on actual data usage.

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Set mobile data limit** to enable the limit.

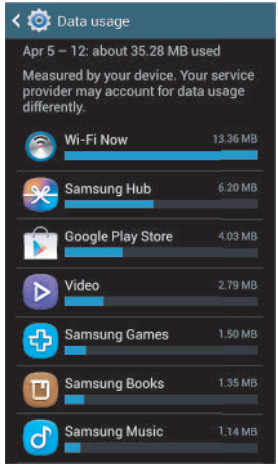
3. Configure the mobile data limit by touching and dragging the **limit** and **warning** lines on the graph.



Viewing data usage by app or process

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.

2. Scroll down the page to see the processes or apps using mobile data service listed in order of their amount of usage.



3. Touch a process or app to see data usage for the process or app, and to configure specific settings (touch **View app settings**, when active).
4. To access mobile data usage settings, touch **Menu**:
   - **Data roaming**: When enabled, includes data roaming usage in the graph.
   - **Restrict background data**: When enabled, stops some apps and services unless your device is connected to a Wi-Fi network.
   - **Auto sync data**: When enabled, reduces mobile data usage and conservers battery power, but you must manually sync your accounts and you will not receive app update notices.
   - **Show Wi-Fi usage**: When enabled, two buttons appear at the top of the **Data usage** screen:
     - **Mobile**: Shows Mobile data usage.
     - **Wi-Fi**: Shows Wi-Fi data usage.
   - **Mobile hotspots**: Lets you mark a detected Wi-Fi hotspot as a mobile hotspot (a check mark appears in the check box), restricting background apps from using this hotspot and warning you when you attempt to use it for large downloads.

More Wireless and Network Settings

Airplane mode

When airplane mode is enabled, all your phone's wireless connections are disabled, and you cannot make or receive calls [except for Emergency (E911) calls] or messages. You can, however, make Wi-Fi and Bluetooth connections.

While in airplane mode, you can use other features of your phone, such as playing music, watching videos, or using other applications.

1. From the **Connections** screen and under **Network connections**, touch **More networks**. The **Wireless and networks** screen appears.
2. Touch **Airplane mode** to enable or disable airplane mode.

Mobile networks

Set options for network selection, data service, and roaming behavior.

1. From the **Wireless and networks** screen, touch **Mobile networks**. The **Mobile networks** screen appears.
2. Set these options:
   - **Mobile data**: Enable or disable your phone's connection to the mobile data network. You can also control this setting at Notifications with the Mobile data toggle.
   - **Data roaming**: Enable or disable connection to data services when your device is roaming on another network. (For more information about roaming, see *"Roaming"* on page 18.)
   - **Network mode**: Configure roaming for CDMA, LTE, and EV-DO networks.
     - **LTE/CDMA**: Lets your phone automatically access LTE, CDMA, and/or EV-DO mobile networks when available.
     - **CDMA**: Restricts your phone to CDMA mobile networks.
   - **System select**: Configure data roaming mode.
     - **Home only**: Restricts your phone to your Wireless Provider's network.
     - **Automatic**: Permits your phone to automatically roam to networks other than that provided by your Wireless Provider.

Portable Wi-Fi hotspot

Use Portable Wi-Fi hotspot to share your phone's internet connection with up to 5 other devices, through Wi-Fi.

You can control whether devices connect to your Portable Wi-Fi Hotspot with the Allowed device list.

(For more information about using your phone as a mobile hotspot, see *"Portable Wi-Fi Hotspot"* on page 132.)

Note: Using Portable Wi-Fi Hotspot requires a subscription to data service. For more information, contact your Wireless Provider.

Using your phone as a mobile hotspot consumes battery power and uses data service. While Portable Wi-Fi Hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

Turning Portable Wi-Fi Hotspot On or Off:

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**.
2. Touch **Portable Wi-Fi Hotspot** OFF and follow the prompts to turn Portable Wi-Fi Hotspot On, or touch **Portable Wi-Fi Hotspot** ON to turn Portable Wi-Fi Hotspot Off.

Note: Using your phone as a mobile Wi-Fi hotspot consumes battery power and uses data service. While Portable Wi-Fi hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile Wi-Fi hotspot will incur extra data charges. (For additonal information, contact your Wireless Provider.)

Configuring Portable Wi-Fi Hotspot

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot → Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen appears.
2. Touch **Configure** to access the following options:
   - **Network SSID**: View and change the name of your Mobile Hotspot.
   - **Hide my device**: When enabled, your Portable Wi-Fi Hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your Portable Wi-Fi Hotspot, but will have to set up the connection manually with your Network SSID and Password.
   - **Security**: Choose the security level for your Portable Wi-Fi Hotspot.
   - **Password**: If you choose a security level that uses a password, enter the password. By default, the password is your mobile telephone number.
   - **Show password**: Enable to make the Password field visible.
   - **Show advanced options**: Enable to access advanced options, including Broadcast channel, to specify the channel your device uses for Portable Wi-Fi Hotspot.

Allowed Device List

Control whether devices connect to your Portable Wi-Fi Hotspot with the Allowed device list. After you add devices to the list, they can scan for your device and connect using your device's Wi-Fi hotspot name (SSID) and password.

Note: Using your phone as a mobile hotspot consumes battery power and uses data service. While Portable Wi-Fi Hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot → Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen appears.
2. Touch **Allowed device list →** , then enter the other device's Device name and MAC address.
3. Touch **OK** to add the device to the **Allowed devices** list.

Tip: For information about connecting to your Portable Wi-Fi Hotspot, see *"Connecting a Device via Portable Wi-Fi Hotspot"* on page 133.

Tethering

Use Tethering to share your phone's internet connection with a computer that connects to your device via USB cable, or by Bluetooth.

(For more information about connecting computers to your phone via Tethering, see *"Tethering"* on page 132.)

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
2. Choose a tethering method:
   - **USB tethering**: Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check appears in the check box.
   - **Bluetooth tethering**: Pair your phone with the computer via Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair via Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check appears in the check box.

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

VPN

Set up and manage Virtual Private Networks (VPNs). (For more information about using VPNs, see *"VPN"* on page 129.)

Adding a VPN

1. From the **Wireless and networks** screen, touch **VPN**.
2. Touch **Add VPN network** to set up a connection to a VPN, using the following settings:
   - **Name**: Enter a name for the VPN connection.
   - **Type**: Choose the type of VPN.
   - **Server address**: Enter the IP address of the VPN server.
   - **PPP encryption (MPPE)**: Touch to enable or disable encryption.
   - **Show advanced options**: Touch to show more options. Available options depend on the type of VPN you are adding.

Note: You must enable at least Pattern security before setting up a VPN. If you have not yet enabled security, you'll be prompted to do so the first time you launch VPN settings.

NFC

Use NFC (Near Field Communication) to share information between your phone and another NFC device by touching the devices together, typically back-to-back.

(For more information about sharing information with NFC, see *"Android Beam"* on page 152 and *"S Beam"* on page 153.)

- From the **Connections** screen, and under **Connect and share**:
  - Touch the **NFC** slider to turn NFC ON.
  - Touch the **NFC** slider to turn NFC OFF.

Note: NFC must be turned ON to use Android Beam or S Beam.

Android Beam

Android Beam uses your phone's NFC (Near Field Communication) feature to send, or "beam", application content to another NFC device, by holding the devices close together.

Android Beam works in the background. Use the sharing options from your favorite apps to select content to share via Android Beam. You can beam browser pages, YouTube videos, contacts, and more.

1. From the **Connections** screen, and under **Connect and share**, touch **NFC**. The **NFC** screen appears.
   - If needed, touch the **NFC** slider to turn NFC ON.

     Note: NFC must be set to ON to use Android Beam.

   - Touch the **Android Beam** slider to turn Android Beam ON.
   - Touch the **Android Beam** slider to turn Android Beam OFF.

S Beam

S Beam uses your phone's NFC (Near Field Communication) to send, or "beam", content to other NFC and Wi-Fi Direct devices, by holding the devices close together.

S Beam works in the background. To share pictures or videos from Gallery, videos from Video player, or songs from Music player. Just bring the devices together (typically back-to-back), then touch the screen.

Turning S Beam On or Off

2. From the **Connections** screen, and under **Connect and share**:
   - Touch the **NFC** slider to turn NFC ON.

   Note: NFC must be set to ON to use S Beam.

   - Touch the **NFC** slider to turn NFC OFF.
3. Under **Connect and share**:
   - Touch the **S Beam** slider to turn S Beam On.
   - Touch the **S Beam** slider to turn S Beam Off.

Nearby devices

Share files with nearby devices via DLNA (Digital Living Network Alliance) over Wi-Fi.

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. From the **Connections** screen, and under **Connect and share**, touch **Nearby devices**. The **Nearby devices** screen appears.
2. Touch **File sharing** to turn file sharing via DLNA ON or OFF. When On, a check mark appears in the check box.

   The **Nearby devices** pop-up appears. Read the cautionary statement, then touch **OK**.
3. Under **Advanced**, touch options to control how content is shared from your device:
   - **Shared contents**: Choose the type of content to share, from **Videos**, **Photos**, or **Music**.
   - **Allowed devices list**: Lists Wi-Fi devices allowed to access your phone.

- **Not-allowed devices list**: Lists Wi-Fi devices blocked from accessing your phone.
- **Download to**: Choose a location to save downloaded content, from USB storage or SD card.
- **Upload from other devices**: Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

Screen Mirroring

This feature lets you use your phone's NFC (Near Field Communication) to share the contents of your device's screen with other, Digital Living Network Alliance (DLNA)-certified devices, such as Smart televisions.

Note: For more information about DLNA certified products visit http://www.dlna.org/home.

1. From the **Connections** screen, and under **Connect and share**, touch **Screen Mirroring**. The **Screen Mirroring** screen appears.
2. For information about using Screen Mirroring, touch **Menu→ Help**.

Kies via Wi-Fi

Kies via Wi-Fi allows you to sync your PC wirelessly with your device provided they are both on the same Wi-Fi network. You can view and share videos, photos, music, ringtones, and more.

1. From your PC, download the Samsung Kies application if you don't already have it. You can find it at samsung.com.
2. From your PC, launch the Samsung Kies application.
3. From your PC, connect to a Wi-Fi network.
4. From the **Connections** screen, and under **Connect and share**, touch **Kies via Wi-Fi**.
5. From your device, connect to the same Wi-Fi network that your PC is connected to if you have not already done so. (For more information, refer to *"Scanning and Connecting to a Wi-Fi Network"* on page 127.)

My device

- From the **Settings** screen, touch

My device. The **My device** screen appears.

Lock screen

Choose settings for locking and unlocking your phone.

(For more information about using the lock and unlock features, see *"Securing Your Phone"* on page 19.)

- From the **My device** screen and under **Personalization**, touch **Lock screen**. Touch the following options to access additional options:
  - **Screen lock**: Touch one of the following options to select it as your custom screen lock/unlock method:
    - **Swipe**: When enabled, you unlock the phone by swiping your finger across the screen. This is the default screen lock, and offers no security.
    - **Face unlock**: When enabled, you unlock the phone by looking at the screen. This option offers low security, because someone who looks similar to you could unlock your phone. Touch the option for more information, and to set up Face unlock.
    - **Face and voice**: When enabled, you unlock the phone by looking at the screen and saying your phone's wake-up command. This option offers low security, because someone who looks similar to you could unlock your phone. Touch the option for more information, and to set up Face and voice unlock.
    - **Pattern**: When enabled, you draw a pattern, which you create, on the screen to unlock the phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.
    - **PIN**: When enabled, you enter a numeric PIN (Personal Identification Number), which you create, to unlock the phone.
    - **Password**: When enabled, you enter an alphanumeric password, which you create, to unlock the phone.
    - **None**: Disable all custom screen lock settings, to use the default swipe unlock screen.

- **Swipe options**:

Note: The Lock screen Swipe options are only available when the **Screen lock** option is set to **Swipe** or **Motion**.

– **Multiple widgets**: When enabled, activates some **Lock screen widgets** options that let you add 1 or more widgets to your Lock screen.

– **Lock screen widgets**: Touch this option and the **Lock screen widget options** screen appears with the following additional options available:

Favoirte apps or Camera: Touch **Favoirte apps or Camera** OFF to enable the Favoirte apps widget or Camera shortcut on the Lock screen.

Clock or personal message: Choose whether the Clock widget or a personal message text entry appears on the Lock screen.

Edit personal information: Customize the personal message text on the Lock screen.

– **Shortcuts**: When enabled, application shortcuts appear on the lock screen. Swipe an icon to launch the associated application. Touch **Shortcuts** OFF to enable lock screen shortcuts. Touch **Shortcuts** ON to disable lock screen shortcuts. Touch **Shortcuts** to add/remove lock screen shortcuts.

– **Unlock effect**: Touch this option to enable/disable showing a Ripple or Light effect on the lock screen, provided the lock screen wallpaper is not “live”.

– **Help text**: Touch this option to enable/disable showing text explanations of lock screen features. When enabled, a check mark appears in the check box.

– **Wake up in lock screen**: Touch this option to enable/disable unlocking your phone by saying the S Voice wake-up command. When enabled, a check mark appears in the check box. (For more information about S Voice, see *“S Voice”* on page 116.)

– **Set wake-up command**: Touch this option to configure the S Voice wake-up command functions. (For more information about S Voice, see *“S Voice”* on page 116.)

Display

- From the **My device** screen and under **Personalization**, touch **Display**. The **Display** menu appears.

General

Wallpaper

Select wallpaper(s) for the Home and Lock screens.

1. From the **Display** menu, under **General**, touch **Wallpaper**.
2. Touch the screen for which you want to select wallpaper. (Options are: **Home screen**, **Lock screen**, and **Home and lock screens**.)
3. Touch the source of the wallpaper(s) you want to use. [Options are: **Gallery**, **Live wallpapers** (not for the Lock screen), and **Wallpapers**.)
4. Touch the desired image or wallpaper.

Notification panel

- From the **Display** menu, under **General**, touch **Notification panel**. The following options are available:
  - **Brightness adjustment**: When enabled, the Brightness setting appears on the Notification panel, below the Quick setting buttons.
  - **Set the quick setting buttons**: By touching and dragging available buttons in rows 2 through 4 into row 1, you can customize which Quick settings buttons appear on the Notification panel.

Multi window

- From the **Display** menu, under **General**, touch **Multi window** to enable or disable the Multi window tray. (For more information, refer to *"Using Multi Window"* on page 27.)

Screen

Screen mode

Set the screen color balance and contrast mode.

1. From the **Display** menu, under **Screen**, touch **Screen mode**.
2. Touch **Dynamic**, **Standard**, **Natural**, or **Movie** then touch **OK**.

Brightness

Set the default screen brightness.

1. From the **Display** menu, under **Screen**, touch **Brightness**.
2. Touch and drag the slider to set the brightness, or touch **Automatic brightness** to allow the phone to adjust brightness in response to light conditions.
3. Touch **OK** to save the setting.

Auto-rotate screen

When enabled, the screen's orientation automatically changes when you rotate the phone.

- From the **Display** menu, under **Screen**, touch **Auto-rotate screen** to turn the feature On or Off.

Tip: You can also set Auto rotate on the Notifications panel with the Screen rotation setting.

Screen timeout

Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the **Display** menu, under **Screen**, touch **Screen timeout**.
2. Touch a setting to select it.

Daydream

When set to ON, this option lets you control your phone's reactions to being placed in an optional desk or vehicle dock and/or sleeping.

1. From the **Display** menu, under **Screen**, touch:
   - Touch the **Daydream** slider to turn Daydream ON.
   - Touch the **Daydream** slider to turn Daydream OFF.
2. Touch **Daydream** to select Daydream wallpaper from Colors, Flipboard, Photo Frame, or Photo Table.

   For additional Flipboard, Photo Frame, or Photo Table settings, touch .
   - Touch **Start now** to preview the effects of your Daydream settings.
   - Touch **Enable daydream**, then select **While docked**, **While charging**, or **All**.

Font

Font style

Set the font for screen displays.

1. From the **Display** menu, under **Font**, touch **Font style**.
2. Select a font, or touch **Get fonts online** to browse and download a new font.

Font size

Set the font size for screen displays.

1. From the **Display** menu, under **Font**, touch **Font size**.
2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

More settings

- From the **Display** menu, under **More settings**, the following options are available:
  - **Touch key light duration**: Select the length of time keys light when you touch them (1.5 seconds, 6 seconds, Always off, or Always on).
  - **Display battery percentage**: When enabled, the battery's charge level displays in the Status bar next to the Battery icon.
  - **Edit after screen capture**: When enabled, after you capture a screen displayed on your phone, Picture editor launches with the screenshot preloaded for you to edit it.
  - **Auto adjust screen tone**: When enabled, your phone automatically analyzes the screen and adjusts screen tone to save power.
  - **High touch sensitivity**: When enabled, your phone's screen sensitivity increases to let you interact with your phone while wearing gloves.

LED indicator

Select which alerts cause the LED indicator (upper left corner of your phone) to come on while your phone's screen is off.

- From the **My device** screen and under **Personalization**, touch **LED indicator**. The following options are available:
  - **Charging**: LED indicator lights red while your phone's battery is being charged.
  - **Low battery**: LED indicator lights red when your phone's battery charge level becomes low.
  - **Notifications**: LED indicator flashes blue when you have missed calls, new messages, or application events.
  - **Voice recording**: LED indicator lights blue when you are recording a voice note.

Sound

- From the **My device** screen and under **Personalization**, touch **Sound**. The **Sound** menu appears.

Volume

Set the system volume level, and set default volume for call ringtones, notifications, and media playback.

Note: You can also set System volume from the Home screen by pressing the **Volume** key Up or Down.

1. From the **Sound** menu, touch **Volume**. The **Volume** menu pops-up.
2. Touch and drag the sliders for:
   - **Music, video, games, and other media**: Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
   - **Ringtone**: Set the volume for incoming call ringtones.
   - **Notifications**: Set the volume for notifications, such as new messages and event reminders.
   - **System**: Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.
3. Touch **OK** to save your settings.

Vibration intensity

Set the level for vibration to accompany ringtones and notifications.

1. From the **Sound** menu, touch **Vibration intensity**. The **Vibration intensity** menu pops-up.
2. Touch and drag the sliders for:
   - **Incoming call**: Set the vibration level for incoming call ringtones.
   - **Notification**: Set the vibration level for notifications, such as new messages and event reminders.
   - **Haptic feedback**: Set the vibration level vibrations to accompany screen touches.
3. Touch **OK** to save your settings.

Ringtones

Choose a ringtone for incoming calls.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Ringtones**. The **Ringtones** menu pops-up.
2. Touch a ringtone to select it. When you touch a ringtone, a sample plays, unless you have a Silent mode enabled.
3. Touch **OK** to save your selection.

Tip: You can also set songs as ringtones for all calls, or for a selected contact. (For more information, refer to *"Music"* on page 108.)

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Vibrations**. The **Vibrations** menu pops-up.
2. Touch a vibration pattern to select it. When you touch a pattern, a sample plays.
3. To create your own pattern, touch **Create**. Touch **Tap to create** in the pattern, then touch **Stop**. Touch **Save** to save your pattern.
4. Touch **OK** to save your selection.

Notifications

Choose a default sound to play for notifications, such as for new messages and event reminders.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Notifications**. The **Notifications** menu pops-up.
2. Touch a sound to select it. When you touch a sound, a sample plays.
3. Touch **OK** to save your selection.

Tip: You can also set songs as ringtones. (For more information, refer to *"Music"* on page 108.)

Vibrate when ringing

When enabled, vibration is played at the same time as sounds for calls and alerts.

- From the **Sound** menu, under **Ringtone and notifications**, touch **Vibrate when ringing** to enable or disable the feature.

  When **Vibrate when ringing** is enabled, a check mark appears in the check box.

Dialing keypad tone

Dialing keypad tones are sounds that play when you touch keys on the Phone keypad.

- From the **Sound** menu, under **System**, touch **Dialing keypad tones** to enable or disable key sounds.

  When **Dialing keypad tones** is enabled, a check mark appears in the check box.

Touch sounds

Touch sounds play when you touch items on the screen, such as when making a selection.

- From the **Sound** menu, under **System**, touch **Touch sounds** to enable or disable touch sounds.

  When **Touch sounds** is enabled, a check mark appears in the check box.

Screen lock sound

Screen lock sound plays when you lock or unlock the screen.

- From the **Sound** menu, under **System**, touch **Screen lock sound** to enable or disable the Screen lock sound.

  When **Screen lock sound** is enabled, a check mark appears in the check box.

Haptic feedback

When turned On, the phone vibrates to indicate screen touches and other interactions.

- From the **Sound** menu, under **System**, touch **Haptic feedback** to turn touch vibrations On or Off.

Emergency tone

You can set your phone to play an alert tone or vibrate during an emergency call (for example, calls to 911).

Caution! When you are endangered by intruders, you should disable Emergency tone before placing an Emergency Call.

1. From the **Sound** menu, under **System**, touch **Emergency tone**.
2. To disable the Emergency tone, touch **Off**.
3. To enable the Emergency tone, touch **Alert** or **Vibrate**.

Adapt sound

You can adapt your phone's sound output to headphones and headsets to best suite you.

1. From the **Sound** menu, under **More settings**, touch **Adapt sound**.
2. Follow the instructions and prompts to adapt your phone's sound output to headsets and headphones.

Home screen mode

Select the Home screen layout that best suits your needs.

1. From the **My device** screen and under **Personalization**, touch **Home screen mode**. The **Home screen mode** screen appears.
2. Select the desired Home screen mode:
   - **Standard mode**: A conventional layout for apps and widgets on the Home screen panels.
   - **Easy mode**: A simplified apps and widgets layout for first time smartphone users.

Call

Note: This section does not include information about Call settings. (For Call settings information, see *"Call Settings"* on page 70.)

Blocking mode

When enabled, Blocking mode lets you select which notifications you receive.

1. From the **My device** screen and under **Personalization**, touch **Blocking mode**

to enable this feature.
2. Touch the **Blocking mode** tab to access the following additional options:
   - **Features**:
     - **Disable incoming calls**: Blocks incoming calls from everyone except **Allowed contacts**.
     - **Disable notifications**: Blocks notifications from playing an alert tone.
     - **Disable alarm and timer**: Blocks notifications from Clock and Calendar alarms, and from timers.
     - **Disable LED indicator**: Stops LED indicator from lighting.
   - **Set time**:
     - **Always**: When enabled, Blocking mode stays active until you turn it off.
     - **From**: With **Always** disabled, select the time when Blocking mode will come on.

– **To**: With **Always** disabled, select the time when Blocking mode will go off.

• **Allowed contacts**:

– **Allowed contacts**: Select contacts from whom your phone is to accept incoming calls. [Options are: None, All contacts, Favorites, Custom (selecting this option enables **Allowed contact list**).]

– **Allowed contact list**: Add and remove contacts from whom your phone accepts calls when Blocking mode is on.

3. Select the desired option to enable/disable it.

Power saving mode

Configure Power saving settings to conserve battery power.

1. From the **My device** screen and under **Personalization**, touch **Power saving mode**. The **Power saving mode** screen appears.
2. Touch **Power saving** to enable or disable the option:
   - Touch **Power saving**

to enable Power saving.
   - Touch **Power saving**

to disable Power saving.

   Power saving must be enabled (

) to configure the **Power saving mode settings**.

3. Touch the following **Power saving mode settings** to enable or disable them. (When an option is enabled, a check mark appears in its check box.):
   - **CPU power saving**: When enabled, the phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
   - **Screen power saving**: When enabled, the screen uses reduced frame refresh rate and lower brightness.
   - **Turn off haptic feedback**: When enabled, no vibration plays when you touch the screen.
4. Under **Power saving tips**, touch **Learn about power saving** to read information about Power saving options.
5. Touch an app or service to display the **App info** or **Active app** screen which provides more detailed storage usage information, and lets you Stop/Force stop or Uninstall/Report and app or service. For Downloaded apps, you can also Clear data, Clear cache, and/or Clear defaults.

Accessory

Configure your phone's behavior when you connect it to optional accessories (not included).

- From the **My device** screen and under **Personalization**, touch **Accessory**. The **Accessory** screen appears.

Dock

Configure your phone's behavior when it is connected to an optional Dock (not included).

- From the **Accessory** screen, under **Dock**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
  - **Dock sound**: When enabled, a sound plays when you insert and remove the phone from the Dock.
  - **Audio output mode**: When enabled, audio plays through the Dock speakers when the phone is docked.
  - **Desk home screen display**: When enabled, displays a special screen when the phone is docked.

Clear cover

- From the **Accessory** screen, under **Clear cover**, touch the check box next to **Automatic unlock** to enable/disable unlocking your phone's screen by flipping the cover open, provided the secure lock is disabled: (When enabled, a check mark appears in the check box.)

HDMI

Configure your phone's behavior when you connect it to an HD television or an amplifier using an optional HDTV Adapter (not included).

- From the **Accessory** screen, under **HDMI**, the following option is available:
  - **Audio output**: Select the quality of sound to be produced (Stereo or Surround).

Accessibility

Your phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

- From the **My device** screen and under **Personalization**, touch **Accessibility**. The **Accessibility** screen appears.

System

- From the **Accessibility** screen, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
  - **Auto-rotate screen**: The screen's orientation automatically changes when you rotate the phone.
    You can also set Auto rotate on the Notifications panel with the Screen rotation setting.
  - **Screen timeout**: Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).
  - **Speak passwords**: Lets you speak passwords for log-ins.

- **Answering/ending calls**:
  - **The home key answers calls**: When enabled, you can answer an incoming call by pressing **Home**.
  - **Answer calls by tapping**: When enabled, you can answer calls by touching the Accept call icon on the incoming call screen.
  - **Voice control**: When enabled, you can answer calls using the S Voice wake-up command.
  - **The power key ends calls**: When enabled, pressing **Power/Lock** ends a call.
- **Accessibility shortcut**: Adds an **Accessibility settings** option to the **Device options** menu (appears when you press and hold the **Power/Lock** key. This provides quick access to the **Accessibility** settings, to make changes as you use the phone.

Services

Enable or disable accessibility services.

TalkBack

- From the **Accessibility** screen, under **Services**, touch the following option:
  - **TalkBack**: When enabled in the **TalkBack** screen, recites menu options, application titles, contacts, and other items when scrolling and making selections, according to the **Settings** values you select.

Vision

- From the **Accessibility** screen, under **Vision**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
  - **Font size**: Set the font size for screen displays (Tiny, Small, Normal, Large, Huge).
  - **Magnification gestures**: When set to ON, you can use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
  - **Negative colors**: Reverses the colors on the screen.
  - **Color adjustment**: When set to ON, you can adjust the display colors if you have difficulty reading the your phone's display because of the colors. Touch and slide the slider to the right to activate the feature, then follow the on-screen instructions.
  - **Accessibility shortcut**: When set to ON, a link to Accessibility settings displays on the Device options menu, which displays when you press and hold the Power/Lock Key. This provides quick access to accessibility settings, to make changes as you use the phone.
  - **Text-to-speech output**: Select Preferred TTS engine, Speech rate, and Driving mode.
  - **Enhance web accessibility**: Does not allow / Allows apps to install scripts from Google that make their Web content more accessible.

Hearing

- From the **Accessibility** screen, under **Hearing**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
  - **Sound balance**: Lets you adjust media player sound balance when you are using a stereo headset or stereo headphones.
  - **Mono audio**: Delivers monophonic sound to support listening with a wired or Bluetooth headset with one earphone.
  - **Turn off all sounds**: Disables all sounds, including the voice portion of calls.
  - **Flash notification**: allows you to set your camera light to blink whenever you receive a notification.

Mobility

1. From the **Accessibility** screen, under **Mobility**, the following options are available:
   - **Assistant menu**: When set to ON, improves accessibility to your phone for users with reduced dexterity.
   - **Tap and hold delay**: Select the length of time the phone considers a screen touch before interpreting a touch as touch-and-hold (Short, Medium, Long).

Interaction control

This feature lets you turn motions and screen timeout on and off, and lets you disable touch interaction on some areas of the screen from within an application.

1. From the **Accessibility** screen, under **Recognition**, touch **Interaction control**. The **Interaction control** screen appears.
2. Touch **Interaction control**

to set this feature to ON.
3. With **Interaction control** set to ON, enable and disable this feature by pressing **Home** and the Volume down key at the same time.

Language and input

- From the **My device** screen and under **Input and control**, touch **Language and input**. The **Language and input** screen appears.

Language

Select the language used in your phone's screens.

- From the **Language and input** screen, touch **Language** to select the language used in your phone's screens.

Keyboards and input methods

Configure text entry options to your preferences.

- From the **Language and input** screen, under **Keyboards and input methods**, touch the check box next to each of the following options to enable it. (When enabled, a check mark appears in the check box.):
  - **Default**: Review the default method for manually entering text.

Note: This option cannot be changed.

  - **Google voice typing**: Lets you vocally dictate the text entered into a field. Touch beside Google voice typing to configure the following options:
    - **Choose input languages**: Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
    - **Block offensive words**: When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
    - **Download offline speech recognition**: Enables voice input using Google voice typing while your phone is offline.
  - **Samsung keyboard**: Touch beside Samsung keypad to configure the following options.

Note: This option cannot be disabled.

    - **Portrait keyboard types**: Choose the default keypad when the screen is in portrait mode, from Qwerty or 3x4 keyboard (similar to a phone keypad).

– **Input languages**: Select languages for the Samsung keyboard.

Tip: When you have more than one language selected, you can slide your finger on the space bar while entering text to switch languages.

– **Predictive text**: When enabled, T9 suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text** OFF to enable T9 predictive text, touch **Predictive text** ON to disable T9 predictive text. Touch **Predictive text** to configure the following options:

Personalized data: When enabled, Predictive text uses personal language data you have entered.
Learn from Facebook: Log in to let your device learn from your Facebook entries.
Learn from Gmail: Log in to let your device learn from your Gmail messages.
Learn from Twitter: Log in to let your device learn from your "tweets".
Learn from Messaging: Update to let your device learn from your message text entries.
Learn from Contacts: Update to let your device learn from your Contacts style.
Clear remote data: Remove all the personal language data you have entered.

– **SwiftKey Flow**: When enabled, you can sweep your finger over keypad letters to enter words. When you lift your finger, a word matching your sweep is entered automatically. Available when Predictive text is turned On.

– **Cursor control**: When enabled, you can move the cursor by sliding your finger across the keyboard.

– **Handwriting**: When in Handwriting mode, Samsung keyboard recognizes on-screen tracing of words. Touch **Handwriting** to configure the following options:

Recognition type: Select Stroke recognition or Complete recognition.
Recognition time: Select 100 ms, 300 ms, 500 ms, 1000 ms, or 2000 ms.
Pen thickness: Select 1 pixel, 3 pixels, 5 pixels, 7 pixels, or 9 pixels.
Pen color: Select Black, Red, Blue, Green, or Brown.
About: Lists the Vision Objects Handwriting widget release version.

– **Advanced**:

Auto capitalization: When enabled, T9 automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.

Auto spacing: When enabled, Automatically inserts spaces between words.

Auto-punctuate: When enabled, a period and space are automatically entered to end a sentence, when you touch the space bar twice.

Character preview: When enabled, characters available on the key you touch display briefly as you enter text.

Key-tap vibration: When enabled, a vibration plays for your key touches.

Key-tap sound: When enabled, a sound plays for your key touches.

– **Help**: View help for using T9 predictive text.

– **Reset settings**: Touch to reset Samsung keyboard settings to the defaults, except for My word list and the Auto substitution list.

• **Swype**: Touch beside Swype to configure the following options.

– **How to Swype**: Learn Swype through quick, easy-to-use steps.

– **Gestures**: Learn about the gestures you can use to simplify accessing Swype features.

– **Preferences**:

Vibrate on keypress: When enabled, the phone vibrates on text entry.

Sound on keypress: When enabled, plays sounds as you enter text.

Show helpful tips: When enabled, displays a flashing indicator for quick help as you enter text.

Auto-spacing: When enabled, inserts spaces automatically when you pause entering text.

Auto-capitalization: When enabled, automatically capitalizes the first letter of the first word in a sentence.

Show complete Trace: Choose whether to display the complete Swype path.

Pop-up on keypress: Characters pop-up when you type them.

Next word prediction: When enabled, suggests possible matching words as you enter text.

Reset Swype's dictionary: Delete all words you've added.

Version: View the current Swype software version.

– **Language Options**:

English: Change current language.

Living language: When enabled, automatically updates Swype with popular new words.

Download languages: Select and download languages besides US English.

Active: Enable or disable installed languages.

– **Swype Connect**:

Register now: Register your Swype Backup & Sync account.

Backup & Sync: When enabled, your device automatically downloads popular, new words based on language and location; backs up your Swype dictionary, and synchronizes your Swype dictionary across multiple devices.

Contribute usage data: When enabled, Nuance collects usage data to provide better word predictions.

Cellular data: When enabled, Swype features can use your phone's cellular network connection to download updates, languages, and so on.

– **Personalization**:

Edit Dictionary: Add and/or remove words in your personal dictionary.

Facebook: Sign in to add contact names to your personal dictionary.

Twitter: Sign in to add user names and new words from your public twitter feed to your personal dictionary.

Gmail: Sign in to add recipient names to your personal dictionary.

– **Updates**: Check for updates and download them to your device.

Speech

- From the **Language and input** screen, under **Speech**, the following options are available:
  - **Voice recognizer**: Choose your preferred voice recognizer (Samsung powered by Vlingo or Google).
  - **Voice search**: Configure how **Voice search** reacts to your speech.
    - **Language**: Choose a language for voice searching.
    - **Speech output**: Choose whether Speech is Always available or available with Hands-free only.
    - **Block offensive words**: When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
    - **Hotword detection**: When enabled, say "Google" to launch voice search.
    - **Download offline speech recognition**: Enables voice input while off-line.
    - **Personalized recognition**: Train **Voice search** to more accurately recognize your voice.
    - **Google Account dashboard**: Manage data collected under your Google account.
    - **Bluetooth headset**: Records audio through a Bluetooth headset, when available.
  - **Text-to-speech options**: Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.
    - **Preferred TTS engine**: Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine**.
    - **General**:

      Speech rate: Choose a rate at which text readouts are spoken.

      Listen to an example: Play a sample of speech synthesis.

Mouse/trackpad

Customize the response of your screen swipes.

- From the **Language and input** screen, under **Mouse/trackpad**, touch **Pointer speed**, then touch and drag along the scale to set the pointer speed.

Motions and gestures

Motion lets you control a number of your phone's functions by moving your hand or finger across the screen in a particular pattern or by moving the phone itself in a particular way.

Note: For more information about using Motion, see *"Motions"* on page 25.

1. From the **My device** screen and under **Input and control**, touch **Motions and gestures**.
2. Touch **Air gesture** OFF to enable your phone's ability to recognize hand gestures close to the screen.
   Touch **Air gesture** ON to disable your phone's ability to recognize hand gestures close to the screen.
3. Touch the **Air gesture** option. The **Air gesture** screen appears. The following options are available (To try one of these options, touch it and then touch **Try it**.):
   - **Quick glance**: When set to ON and the screen is off, you can reach toward your phone to receive a quick display of selected information (Time & Date, Notification icons, Missed calls, Unread messages, Battery power, and/or Current music info).
   - **Air jump**: When set to ON, you can "page through" a web page by sweeping your hand up or down near the screen.
   - **Air browse**: When set to ON, you can display previous or next web pages by sweeping your hand left or right near the screen.
   - **Air move**: When set to ON, you can move a shortcut from one Home screen panel to another by sweeping your hand left or right near the screen.
   - **Air call-accept**: When set to ON, you can moving your hand first left and then right near the front of your phone. (You can also elect to have your phone answer calls in Speakerphone mode.
4. Touch **Motion** OFF to enable your phone's ability to recognize active gestures.
   Touch **Motion** ON to disable your phone's ability to recognize active gestures.

5. Touch the **Motion** option. The **Motion** screen appears. The following options are available:
   - **Direct call**: When set to ON, you can lift the phone to your ear while viewing a contact to dial the contact's phone number.
   - **Smart alert**: When set to ON, the phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.
   - **Zoom**: When set to ON, tilting the phone while in Gallery or Internet causes the screen to zoom in or out.
   - **Browse an image**: When set to ON, moving the phone in a panning motion while viewing an image moves focus around in the image.
   - **Mute/pause**: When set to ON, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.
6. Touch **Palm motion**

to enable your phone's ability to recognize gestures made with your palm. Touch **Palm motion**

to disable your phone's ability to recognize gestures made with your palm.
7. Touch the **Palm motion** option. The **Palm motion** screen appears. The following options are available:
   - **Capture screen**: When enabled, swiping your hand left or right across the display captures an image of the current screen.
   - **Mute/pause**: When enabled, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.
8. Touch **Gyroscope calibration** to set your phone's motion sensors to more accurately respond to your hand motions.

Smart screen

- From the **Display** menu, under **Features**, touch **Smart screen**. The following options are available:
  - **Smart stay**: When enabled, this feature prevents screen timeout, if you are using the phone.
    For example, the phone uses the front camera to identify your eyes, and keeps the screen bright for continued viewing.
  - **Smart rotation**: When enabled, this feature adjusts screen images to match your angle of sight.
  - **Smart pause**: When enabled, this feature pauses video playback when it detects your face turning away from the screen.
  - **Smart scroll**: When On, this feature detects your face with the front camera and scrolls web pages or email message content. By touching the Smart scroll tab, you can adjust the scrolling Speed, enable/disable Visual Feedback display, enable/disable Smart scrolling for web pages an/or for email messages content.

Air view

This feature lets you preview selected contents or information in pop-up windows by holding your finger above the screen.

You can scroll through screen panels or lists by moving your finger to an edge (top/bottom/left/right) of the screen.

1. From the **My device** screen and under **Input and control**, touch the following **Air view** options:
2. Touch **Air view**

to enable your phone's ability to recognize your finger hovering close to the screen.
Touch **Air view**

to disable your phone's ability to recognize your finger hovering close to the screen.
3. Touch the **Air view** option. The **Air view** screen appears. The following options are available (To try one of these options, touch it and then touch **Try it**.):
   - **Information preview**: When set to ON, you can preview extended text or enlarged images.
   - **Progress preview**: When set to ON, you can preview a video scene or show elapsed time.

- **Speed dial preview**: When set to ON, you can preview Contact names assigned to Speed dial numbers by hovering over the Phone keypad keys.
- **Webpage magnifier**: When set to ON, you can view a portion of a web page magnified.

4. Touch **Sound and haptic feedback** to enable/disable sound playback and haptic vibrations when you hover your finger over Air view items.

Voice control

Enable use of voice commands to control selected functions of, or applications on, your phone.

1. From the **My device** screen and under **Input and control**, touch the following **Voice control** options:
2. Touch **Voice control**

to enable you to use voice commands to control selected functions of, or applications on, your phone.
3. Touch **Voice control**

to disable you from using voice commands to control selected functions of, or applications on, your phone.
4. Touch the **Voice control** option. The **Voice control** screen appears. The following options are available:
   - **Incoming calls**: When enabled, you can answer or reject calls by saying “Answer” and “Reject”. Your phone with answer the calls in Speakerphone mode.
   - **ChatON**: When enabled, you can answer or reject ChatON calls by saying “Answer” and “Reject”. Your phone with answer the ChatON calls in Speakerphone mode.
   - **Alarm**: When enabled, you can stop an alarm or set it to snooze by saying “Stop” and “Snooze”.

- **Camera**: When enabled, you can take pictures by saying "Smile", "Cheese", "Capture" and "Shoot".
- **Music**: When enabled, you can control the Music Player by saying "Next", "Previous", "Pause", "Play", "Volume Up", and "Volume Down".

Accounts

Set up and manage accounts, including your Samsung, Email, Google, and social networking accounts.

- From the **Settings** screen, touch

Accounts. The **Accounts** screen appears.

Samsung account

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **Samsung account**. The **Samsung account** screen appears.
2. Under **General settings**, touch **Account settings**. The following options are available:
   - **Account information**:
     - **Profile** (password protected): Change password and view Email address, Date pf birth, Name prefix, First name, Lastname, Zip code, Nickname, and Receive newsletter status for your account.
     - **Terms and conditions**: Review Country or region, Terms and conditions, and Privacy policy information.
     - **Help**: Find your email address or password, Contact us with a text message, or review Customer support information [My questions, FAQ (Frequently Asked Questions), or Contact us].

- **Device backup**:
  - **Auto backup**: When set to On for at least an hour and connected to a Wi-Fi network and with the screen off and the device charging, your data is backed up automatically.
  - **Backup options**: Select the data to be backed up [Logs, Messages (SMS), Messages (MMS), and/or Wallpaper].
  - **Back up now**: Immediately backup your data. Also shows when your data was Last backed up.
  - **Restore**: Immediately restore your backed up data to your device.

ChatON

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **ChatON**. The **ChatON** screen appears.
2. Follow the prompts to set up a ChatON account or a link to an existing account.

Dropbox

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **Dropbox**. The **Welcome to Dropbox!** screen appears.
2. Follow the prompts to set up a Dropbox account or a link to an existing account.

Email

1. From the **Accounts** screen, under **My accounts**, touch **Email**. The **Email** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General settings**. The following options are available:
   - **General settings**:
     - **Auto-advance**: Select which screen (Next message, Previous message, Message list) appears after you delete a message.
     - **Message preview line**: Number of message lines (None, 1 line, 2 lines, 3 lines) that appear in the folder message list.
     - **Title line in list**: Select which message header line (Subject, Sender) appears as the message title in the folder message list.
     - **Confirm deletions**: When enabled, you are prompted to confirm message deletions.
     - **Quick responses**: Edit pre-composed text you frequently include in your messages.
     - **Spam addresses**: Edit list of senders and domains reported as spam sources.
     - **Priority sender settings**:

       Priority senders: List those senders whose messages receive priority in your message list.

       Set as the default folder: When enabled, the priority sender inbox appears when you touch **Email**.

       Email notifications: When enabled, an icon and the Email title appear in the status bar for new messages.

       Select ringtone: Choose the ringtone that plays when you receive new messages.

       Vibrate: When enabled, your phone vibrates when you receive new messages.
     - **Rules for filtering**: Set email filters and manage filtered email in the Combined view.
     - **Delay email sending**:

       Delay email sending: When enabled, delays sending your emails for your selected delay interval so that you can cancel them.

       Set length of delay: Choose 3 seconds (default), 5 seconds, 10 seconds, 20 seconds, or 30 seconds.
     - **Default image size**: Choose the default size for images attached to email messages [Original, Large (70%), Medium (30%), Small (10%), or Always ask (default)].

4. Under **Added accounts**, touch the desired account. The following options are available:
   - **Notification settings**
     - **Email notifications**: Enable or disable display of a new email icon in the Annunciator line when new mail arrives.
     - **Select ringtone**: Assign a ringtone for new email notifications.
     - **Vibrate**: Enable or disable vibration with new email notifications.
   - **Sync settings**:
     - **Sync Email**: When enabled, the contents of your phone's email folder is synchronized with your account.
     - **Sync schedule**: Peak/Off-peak schedule control.
     - **Size to retrieve emails**: Select the amount of new incoming message contents to include in your message list.
   - **Common settings**:
     - **Signature**: When On, adds pre-composed signature text to send messages. Touch to edit the signature text that appears at the end of email messages you send.
     - **Default account**: When active, sends email from this account by default.
     - **More settings**:

       Account name: Enter a name to identify the account.

       Your name: Enter a name to identify you to email recipients.

       Always Cc/Bcc myself: Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.

       Forward with attachments: Enables including copies of any attached files when forwarding a copy of an email message.

       Show images: When enabled, images included in incoming messages are automatically downloaded and displayed.

       Number of emails to load: Select the number of messages (25, 50, 75, 100, 200, Total) that appear in your message list.

       Auto download attachments: When enabled, items attached to incoming messages are automatically downloaded with the messages.

       Auto resend times: Select the number of times your phone is to attempt to send an outgoing message before marking it as un-sent.

       Security options: Set advanced email security options.

       Incoming settings: Modify settings for accessing the email server to view incoming email messages.

       Outgoing settings: Modify settings for accessing the email server to send email messages.

Google

Adding Google account

1. From the **Accounts** screen, under **My accounts**, touch **Add account** ➔ **Google**. The **Add a Google Account** screen appears.
2. Touch **Existing** or **New**.
3. Follow the prompts to set up a Google account link.

Account Synchronization settings

1. From the **Accounts** screen, under **My accounts**, touch **Gmail**. The **Google** screen appears.
2. Under **Accounts**, touch the desired Google account. The **Sync settings** screen appears listing the following options:
   - **Sync Calendar**: Synchronize your phone's calendar with your on-line calendar.
   - **Sync Contacts**: Synchronize your phone's contacts list with your on-line contacts list.
   - **Sync Gmail**: Synchronize your phone's Gmail inbox with your on-line Gmail inbox.
   - **Sync Google Photos**: Synchronize your phone's gallery photos with your on-line Google Photos.
   - **Sync Google Play Books**: Synchronize your phone's ebooks library with your on-line ebooks library.
   - **Sync Google Play Magazines**: Synchronize your phone's emagazines library with your on-line emagazines library.
   - **Sync Google Play Movies &**: Synchronize your phone's movies library with your on-line movies library.
   - **Sync Google Play Music**: Synchronize your phone's music list with your on-line music list.
   - **Sync Internet**: Synchronize your phone's Internet browser bookmarks with your on-line bookmarks list.
   - **Sync now**: Synchronize all enabled options immediately.
   - **Remove account**: Delete this account from your phone.

General settings

1. Press **Home**, then touch **Apps**, and the **Apps** tab. The **Apps** screen appears in the display.
2. Touch **Gmail**. The Gmail **Inbox** screen appears.
3. Touch **Menu** → **Settings** → **General settings**. The following options are available:
   - **Confirm before deleting**: When enabled, prompts you to confirm deletions of conversations or messages.
   - **Confirm before archiving**: When enabled, prompts you to confirm movement of conversations or messages to archive.
   - **Confirm before sending**: When enabled, prompts you to confirm sending of messages.
   - **Reply all**: When enabled, your message replies are automatically sent to all original message recipients.
   - **Auto-fit messages**: When enabled, messages are shrunk to fit your phone's screen. Zoom is also enabled.
   - **Auto-advance**: When enabled, the conversation list is automatically updated and displayed after you delete or archive messages or conversations.
   - **Hide checkboxes**: When enabled, check boxes are not displayed. To select messages or conversations, you must touch and hold them.
   - **Message actions**: Allows you to configure how display message actions. Choose from: Always show, Only show in portrait, and Don't show.
   - **Clear search history**: Remove previous searches you have performed.
   - **Hide pictures in messages**: Until you allow by sender, pictures do not display automatically.

Account settings

1. Press **Home**, then touch **Apps**, and the **Apps** tab. The **Apps** screen appears in the display.
2. Touch **Gmail**. The Gmail **Inbox** screen appears.
3. Touch **Menu** → **Settings** and select an account. The following options are available:
   - **Priority Inbox**: When enabled, your Gmail account becomes your default inbox.
   - **Notifications**: When enabled, notifications for new email appears in the Notifications Panel.
   - **Sound & vibrate**: Select Sound (ringtone) to play when new messages arrive, whether to Vibrate to alert you to new messages, and whether to Notify you once for new email messages.
   - **Signature**: Create a text signature to add to outgoing messages.
   - **DATA USAGE**:
     - **Gmail sync is ON**: Enable or disable automatic synchronization, change synchronization settings for this account, remove this account (unless it is the only Gmail account), or add an account.
     - **Days of mail to sync**: Choose the number of days worth of Gmail messages to synchronize.
     - **Manage labels**: Choose which Gmail labels are synchronized, and access **Sound & vibrate** settings.
     - **Download attachments**: When enabled, automatically downloads attachments to recent messages, but only when your device is connected to a Wi-Fi network.

LDAP

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **LDAP**. The **Set up an LDAP account** screen appears.
2. Follow the prompts to set up an LDAP account link.

Microsoft Exchange ActiveSync

1. From the **Accounts** screen, under **My accounts**, touch **Microsoft Exchange ActiveSync**. The **Microsoft Exchange ActiveSync** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General preferences**. The General preferences options are the same as for Email accounts.
4. Under **Added accounts**, touch the desired account. The following options are available:
   - **Common settings**:
     - **Account name**: Enter a name to identify the account.
     - **Signature**: Enter or change signature text.
     - **Default account**: Touch to assign or un-assign this account as the default account for sending email from your phone.
     - **Always Cc/Bcc myself**: Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.
     - **Forward with attachment**: Enables including copies of any attached files when forwarding a copy of an email message.
     - **Show images**: When enabled, images included in messages automatically display, without a confirmation pop-up.
   - **Data usage**:
     - **Auto download attachments**: When enabled, automatically downloads attachments to recent messages, but only when your device is connected to a Wi-Fi network.
   - **Exchange ActiveSync settings**:
     - **Period to sync email**: Choose the number days worth of email messages the phone and server will synchronize. Choose from: **All, 1 day**, **3 days**, **1 week**, **2 weeks**, or **1 month**.
     - **Empty server trash**: Delete your email account's trash bin remotely.
     - **Sync schedule** Choose your email automatic synchronization schedule.
     - **Folder sync settings**: Choose email automatic synchronization schedules for individual folders.
     - **Out of office settings:** Enable/disable your account's out of office settings, choose the start/end dates, and enter/change your outgoing messages.
     - **Size to retrieve emails**: Choose how much of each message your phone retrieves before you view it.

- **Period to sync Calendar:** Choose the period of time for your phone to synchronize calendar events (**2 weeks, 1 month**, **3 months**, **6 months**, or **All calendar**).
- **In case of Sync Conflict**: Choose whether your Device has priority or the Server has priority during automatic synchronization.
- **Auto resend times**.: Choose the number of times to automatically resend a message before marking it un-sent.

- **Notification settings**
  - **Email notifications**: Enable or disable display of a new email icon in the Annunciator line when new mail arrives.
  - **Select ringtone**: Assign a ringtone for new email notifications.
  - **Vibrate**: Enable or disable vibration with new email notifications.
- **Server settings**
  - **Exchange server settings**: Change the server link settings on your device.
  - **Sync contacts**: Synchronize your phone's contacts list with the Exchange server's contacts list.
  - **Sync Calendar**: Synchronize your phone's calendar with the Exchange server's calendar.
  - **Sync Task**: Synchronize your phone's Task list with the Exchange server's Task list.

Facebook

1. From the **Accounts** screen, under **My accounts**, touch **Add account → Sync apps with Facebook**. The **Play store - Facebook Install** screen appears.
2. Follow the prompts to link your phone to an existing Facebook account, or to set up a Facebook account and link your phone to it.

Cloud

1. From the **Accounts** screen, under **Backup options**, touch **Cloud**. The **Cloud** screen appears.
2. Follow the prompts to link your phone to an existing Cloud storage account or Dropbox account, or to set up a Cloud storage account or Dropbox account and link your phone to it.

Back up and reset

Set options for backing up your information and resetting your device.

- From the **Accounts** screen, under **Backup options**, touch **Backup and reset**. The **Backup and reset** screen appears.

Backup and restore

- From the **Backup and reset** screen, under **Backup and restore**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
  - **Back up my data**: Backs up app data, Wi-Fi passwords, and other phone settings to Google servers.
  - **Backup account**: Select or set-up a Google account your phone will use to backup your app data, Wi-Fi passwords, and other phone settings.
  - **Automatic restore**: Automatically restore app data, Wi-Fi passwords, and other phone settings from your automatic backup.

Personal data

Factory data reset

Use Factory data reset to return all settings to the defaults, and remove all data from the phone.

Important! Settings and data erased in a Factory data reset cannot be recovered. To save your settings, you can use the **Back up my data** option before a reset. (For more information, see *"Backup and restore"*.)

- From the **Backup and reset** screen, under **Personal data**, touch **Factory data reset** to return all settings to the defaults, and remove all data from the phone.

More

- From the **Settings** screen, touch

More. The **More** screen appears.

Location services

Location services control your device's use of GPS signals. Some apps may require one or more location services be turned On for full app functionality.

GPS signals may be affected by your surroundings, including:

- Buildings
- Tunnels or underground structures
- Weather conditions
- High-voltage or electromagnetic fields
- Tinted windows

1. From the **More** screen, under **Permissions**, touch **Locations services**. The **Location services** screen appears.
2. Touch **Access to my location**

to turn Access to my location ON and make the Location services active.

   – or –

   Touch **Access to my location**

to turn Access to my location OFF and make the Location services inactive.
3. Touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.):

- **Use GPS satellites**: When enabled, lets applications use GPS to pinpoint your location.

Note: Use GPS satellites must be enabled to use some applications. You can also enable or disable **GPS** from the Notifications panel. For more information, refer to *"Notifications"* on page 32.

Important! By selecting **Use GPS satellites**, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means.

- **Use wireless networks**: When enabled, lets applications use data from mobile networks and Wi-Fi to help determine your location.
- **Location and Google search**: When enabled, lets Google use your location data for improved search results and other services.

Note: Google location services must be enabled to use some applications.

Important! By selecting **Location and Google search**, you are allowing Google's location service to collect anonymous location data. Some data may be stored on your device. Collection may occur even when no apps are running.

- **My places**: Save your favorite locations (Home, Office, Car) for use with services that require location information.

Security

- From the **More** screen, under **Permissions**, touch **Security**. The **Security** screen appears.

Encryption

As a security measure, you can encrypt the contents of your phone or an installed memory card, and require a password each time you turn on the phone or access the memory card.

Encryption may take an hour or more to complete. Start with a charged battery, and attach the charger until encryption is complete. Loss of power or other interruption may cause the loss of some or all data.

Once your information is encrypted you will be prompted to enter your decryption password each time you turn your phone on.

- From the **Security** screen, under **Encryption**, touch the following options to encrypt your information:
  - **Encrypt device**: Touch this option to encrypt accounts, settings, downloaded applications and data, media files, and more under a password you specify.

- **Encrypt external SD card**: Touch this option to encrypt selected information stored on a microSD memory card under a password you specify. The following additional **Encryption settings** are available:
  - **Encrypt**: When enabled, new files on the memory card will be encrypted as they are added.
  - **Full encryption**: When enabled, all files on the memory card will be encrypted.
  - **Exclude multimedia files**: When enabled, multimedia files on the memory card will not be encrypted.

Passwords

When enabled, password characters display briefly as you enter them.

- From the **Security** screen, under **Passwords**, touch the following option to enable/disable it: (When the option is enabled, a check mark appears in the check box.)
  - **Make passwords visible**: When enabled, briefly displays password characters as you enter them.

Device administration

View or disable device administrators. Some applications, such as corporate Email, may require you allow access to your device by device administrators in certain circumstances, such as if your phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the phone is restored to factory settings.
- Automatically locking the phone.
- Restoring factory settings on the phone.

- From the **Security** screen, under **Device administration**, touch the following options to enable/disable them: (When an option is enabled, a check mark appears in its check box.)
  - **Device administrators**: View, add, or remove device administrators.
  - **Unknown sources**: When enabled, you can install applications from sources other than Google Play®.
  - **Verify apps**: When enabled, installation is block or you are warned about apps that may harm your phone.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

Credential storage

You can install credentials with an application, from device storage, or from an installed memory card, and use the **Credential storage** settings to allow applications to access the secure certificates and other credentials.

- From the **Security** screen, under **Credential storage**, touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.):
  - **Trusted credentials**: View, enable, or disable trusted CA certificates.
  - **Install from device storage**: Install encrypted certificates from an installed memory card.

Note: You must have installed a memory card containing encrypted certificates to use this feature.

  - **Clear credentials**: Clear stored credentials and reset the password.

Note: This setting is only available if you have installed certificates.

Application manager

You can download and install applications from the Google Play™ Store, or create applications using the Android SDK and install them on your phone. Use Application manager to manage applications on your phone.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

1. From the **More** screen, under **Device manager**, touch **Application manager**. The **Applications manager** screen appears.
2. Touch **Downloaded**, **Running**, or **All** to list the statuses of applications and services. The graph at the bottom of the **Downloaded** tab shows used and free Device memory. The graph at the bottom of the **Running** tab shows used and free RAM.

Battery

See how much battery power is being used by device activities.

1. From the **More** screen, under **Device manager**, touch **Battery**. The **Battery** screen appears.
2. View battery usage for applications and services currently running.

   The battery level displays in percentage. The amount of time the battery was used also displays. Battery usage displays in percentages per application.
3. Touch **Screen**, **Cell standby**, **Android System**, **Android OS**, or any other listed feature or application to view how it is affecting battery use.

Note: Other applications may be running that affect battery use.

Storage

Manage the use of memory resources in your phone's Device memory, and on an installed memory card.

1. From the **More** screen, under **Device manager**, touch **Storage**. The **Storage** screen appears. The following options are available:
   - **Device memory**: View usage for, and manage, your phone's internal memory (For detailed information and to manage storage in use, touch any item except **Total space** or **Available space**.):
     - **Total space**: Shows the total installed device memory.
     - **Applications**: Shows the total device memory currently used to store applications.
     - **Pictures, videos**: Shows the total device memory currently used to store pictures and videos.
     - **Audio**: Shows the total device memory currently used to store music files, ringtones, and so on.)
     - **Downloads**: Shows the total device memory currently used to store recently downloaded files.
     - **Miscellaneous files**: Shows the total device memory currently used to store various application data and system data files.
     - **Available space**: Shows the total device memory available for use.
   - **SD card**: View usage for, and manage, storage space on an optional memory card.
     - **Total space**: Shows the total card memory.
     - **Available space**: Shows the total card memory available for use.
     - **Unmount SD card**: Deactivates the memory card so that you can safely remove it or format it. (For more information, see *"Installing and Removing a Memory Card"* on page 137)
     - **Format SD card**: Deletes all data from the memory card, including music, videos, and photos. (For more information, see *"Formatting a Memory Card"* on page 138.)

Date and time

By default, your phone receives date and time information from the wireless network. When you are outside network coverage, you may want to set date and time information manually using the Date & time settings.

1. From the **More** screen, under **Device manager**, touch **Date and time**. The **Date and time** screen appears.
2. Touch a setting to configure:
   - **Automatic date and time**: When enabled, the phone takes date and time updates from the wireless network (disables Set date, Set time, and Select time zone).
   - **Set date**: Enter the current date (only available when Automatic date and time is disabled).
   - **Set time**: Enter the current time (only available when Automatic date and time is disabled).
   - **Automatic time zone**: When enabled, the phone uses the network-provided time zone.
   - **Select time zone**: Choose your local time zone (only available when Automatic date and time is disabled).
   - **Use 24-hour format**: Set the format for time displays.
   - **Select date format**: Set the format for date displays.

About device

1. From the **More** screen, under **Device manager**, touch **About device**. The **About device** screen appears.

Software Update

Software Update lets your phone connect to the network and download any new phone software directly to your phone. The phone automatically updates with the latest available software when you access this option.

1. From the **About device** screen, touch **Software update**. You are prompted to select your current country.
2. Select a Country, then touch **OK**. A Terms and Conditions screen appears.
3. To proceed to Software Update, touch **I accept all the terms above**, then touch **Confirm**. Your device registers itself with your Wireless Provider's Software Update service, connects with your Wireless Provider's server, and scans for software updates.
4. At the **Software update** prompt, touch **OK** to continue.
5. The phone automatically updates the software (if available), otherwise, when the **The latest updates have already been installed** prompt is displayed, touch **OK**.

6. When updating software, once the update file is downloaded, you can delay the update on the start screen by postponing it for a certain period of time. If you want to resume the update before the selected time, touch **Continue update**.

Status

- From the **About device** screen, touch **Status**. The **Status** screen appears showing: Battery status, Battery level, Network, Signal strength, Mobile network type, Service state, Roaming, Mobile network state, My phone number, MIN, PRL version, MEID, IMEI, ICCID, IP address, Wi-Fi MAC address, Bluetooth address, Up time, and Device status.

Legal information

- From the **About device** screen, touch **Legal information**. From the **Legal information** screen, the following information is available for viewing:
  - Open source licenses
  - Google legal information
  - License settings, including your phone's DivX VOD registration

Device name

- From the **About device** screen, touch **Device name** to change the device name for your phone.

Additional information

The following information items also appear in the About dev ice screen:

- **Model number**: View your phone's model number.
- **Android version**: View the firmware version of your phone.
- **Baseband version**: View the baseband version of your phone.
- **Kernel version**: View the kernel version of your phone.
- **Build number**: View the build number of your phone.

Note: To activate your phone's application **Developer options**, repeatedly touch this option at least 6 times in quick succession.

A pop-up message appears to indicate how many more time you must touch this option.

When enabled, the **Developer options** tab appears in the **More** screen, under **Device manager**.

- **Hardware version**: View the hardware version of your phone.

This device is capable of operating in Wi-Fi mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS). Therefore, do not use this device outside as a Wi-Fi hotspot or in Wi-Fi Direct mode outside when using the 5.15-5.25 GHz band.

This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device**.

Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

Do cell phones pose a health hazard?

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

Research Results to Date: Is there a connection between RF and certain health problems?

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

Interphone Study

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a

slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.

International Cohort Study on Mobile Phone Users (COSMOS)

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at http://www.ukcosmos.org/index.html.

Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at http://seer.cancer.gov/.

Cell Phone Industry Actions

Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the cell phone industry to take a number of steps, including the following:

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and
- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - and at this point we do not know that there is - it is probably very small. But, if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your RF exposure.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

Hands-Free Kits

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

Cell Phone Accessories that Claim to Shield the Head from RF Radiation

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

Children and Cell Phones

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

- FCC RF Safety Program:
  http://www.fcc.gov/oet/rfsafety/.

- Environmental Protection Agency (EPA): http://www.epa.gov/radtown/wireless-tech.html.
- Occupational Safety and Health Administration (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/. (Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/.
- World Health Organization (WHO): http://www.who.int/peh-emf/en/.
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de.
- Health Protection Agency: http://www.hpa.org.uk/Topics/Radiation/.
- US Food and Drug Administration: http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm.

Specific Absorption Rate (SAR) Certification Information

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for Radio Frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government.

These FCC RF exposure limits are derived from the recommendations of two expert organizations: the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The RF exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC SAR limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum reported value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHR970 [Model Number: SCH-R970] and the specific SAR levels for this mobile phone can be found at the following FCC website:
http://www.fcc.gov/oet/ea/.

The SAR information for this device can also be found on Samsung's website:
http://www.samsung.com/sar.

SAR information on this and other model phones can be accessed online on the FCC's website through http://transition.fcc.gov/oet/rfsafety/sar.html. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional

SAR information can also be obtained at http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones.

FCC Part 15 Information to User

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Commercial Mobile Alerting System (CMAS)

This device is designed to receive Wireless Emergency Alerts from CMAS. If your wireless provider has chosen to participate in CMAS, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Smart Practices While Driving

On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired**. Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require. Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;
- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.

Never watch videos, such as a movie or clip, or play video games while operating a vehicle.

For more information, go to http://www.ctia.org.

Battery Use and Safety

Important! Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery**. Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.
- **Do not let the phone or battery come in contact with liquids.** Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.
- **Do not place your battery in or near a heat source**. Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.
- **Do not dispose of the phone or the battery in a fire**. The phone or the battery may explode when overheated.
- **Do not handle a damaged or leaking battery**. Do not let leaking battery fluid come in contact with your eyes, skin or clothing. For safe disposal options, contact your nearest Samsung-authorized service center.

- **Avoid dropping the cell phone**. Dropping the phone or the battery, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- **Never use any charger or battery that is damaged in any way**.
- **Do not allow the battery to touch metal objects**. Accidental short-circuiting can occur when a metallic object (coin, key, jewelry, clip, or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

Important! Use only Samsung-approved batteries, and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone.

WARNING!

Use of a non-Samsung-approved battery or charger may present a risk of fire, explosion, leakage, or other hazard. Samsung's warranty does not cover damage to the phone caused by non-Samsung-approved batteries and/or chargers.

- **Do not use incompatible cell phone batteries and chargers**. Some websites and second-hand dealers not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier-recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.
- **Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, or leakage, leading to serious injuries, damages to your phone, or other serious hazard**.

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile devices and genuine Samsung accessories.

Proper disposal of your mobile device and its battery is not only important for safety, it benefits the environment. Batteries must be recycled or disposed of properly.

Recycling programs for your mobile device, batteries, and accessories may not be available in your area.

We've made it easy for you to recycle your old Samsung mobile device by working with respected take-back companies in every state in the country.

Drop It Off

You can drop off your Samsung-branded mobile device and batteries for recycling at one of our numerous Samsung Recycling Direct (SM) locations. A list of these locations may be found at:
http://pages.samsung.com/us/recyclingdirect/usactivities_environment_samsungrecyclingdirect_locations.jsp
.

Samsung-branded devices and batteries will be accepted at these locations for no fee.

Consumers may also recycle their used mobile device or batteries at many retail or carrier-provided locations where mobile devices and batteries are sold. Additional information regarding specific locations may be found at: http://www.epa.gov/epawaste/partnerships/plugin/cellphone/index.htm or at http://www.call2recycle.org/.

Mail It In

The Samsung Mobile Take-Back Program will provide Samsung customers with a free recycling mailing label. Just go to
http://www.samsung.com/us/aboutsamsung/citizenship/usactivities_environment_samsungrecyclingdirect.html?INT=STA_recyle_your_phone_page and follow the instructions to print out a free pre-paid postage label and then send your old mobile device or battery to the address listed, via U.S. Mail, for recycling.

Dispose of unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect
Or call, (877) 278-0799.

Follow local regulations regarding disposal of mobile devices and batteries

Dispose of your mobile device and batteries in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited. Help us protect the environment - recycle!

Warning! Never dispose of batteries in a fire because they may explode.

UL Certified Travel Charger

The Travel Charger for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines:

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Display / Touch-Screen

Please note the following information when using your mobile device:

WARNING REGARDING DISPLAY

The display on your mobile device is made of glass or acrylic and could break if your mobile device is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

WARRANTY DISCLAIMER: PROPER USE OF A TOUCH-SCREEN MOBILE DEVICE

If your mobile device has a touch-screen display, please note that a touch-screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch-screen may damage the tempered glass surface and void the warranty. For more information, please refer to the "Standard Limited Warranty".

GPS

Certain Samsung mobile devices can use a Global Positioning System (GPS) signal for location-based applications. A GPS uses satellites controlled by the U.S. Government that are subject to changes implemented in accordance with the Department of Defense policy and the 2008 Federal Radio navigation Plan (FRP). Changes may affect the performance of location-based technology on your mobile device.

Even with GPS, when you make an emergency call:

- Always tell the emergency responder your location to the best of your ability; and
- Remain on the mobile device for as long as the emergency responder instructs you.

Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**

Emergency Calls

This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to

make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

To make an emergency call:

1. If the mobile device is not on, switch it on.
2. From the Home screen, touch to launch the Phone Dialer.
3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Touch to place the call.

If certain features are in use (call blocking, for example), you may first need to deactivate those features before you can make an emergency call. Consult your User Manual and your local cellular service provider. When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your mobile device may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Care and Maintenance

Your mobile device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years:

Keep your Samsung Mobile Device away from:

Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand. Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device. Rough handling can break internal circuit boards.

Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

Responsible Listening

Caution! Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cell phones, at high volume settings for long durations may lead to permanent noise-induced hearing loss.

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones

that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

You should follow some common sense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- Be aware that you can adapt to higher volume settings over time, not realizing that the higher volume may be harmful to your hearing.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before you hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300
Reston, VA 20190

Voice: (800) 222-2336
Email: info@audiology.org

Internet:
http://www.audiology.org/Pages/default.aspx

National Institute on Deafness and Other Communication Disorders

National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet:
http://www.nidcd.nih.gov/

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W., Suite 9200
Patriots Plaza Building
Washington, DC 20201

Voice: 1-800-35-NIOSH
(1-800-356-4674)
1-800-CDC-INFO (1-800-232-4636)
Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet:
http://www.cdc.gov/niosh/topics/noise/default.html

1-888-232-6348 TTY

Operating Environment

Remember to follow any special regulations in force in any area, and always switch your mobile device off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the mobile device or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

Using Your Mobile Device Near Other Electronic Devices

Most modern electronic equipment is shielded from Radio Frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless mobile device. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: http://www.fcc.gov/oet/rfsafety/rf-faqs.html#.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your mobile device off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle before using your mobile device in a motor vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your mobile device off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your mobile device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion

or fire resulting in bodily injury or even death. Users are advised to switch the mobile device off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

When your Device is Wet

Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service center.

FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not

be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

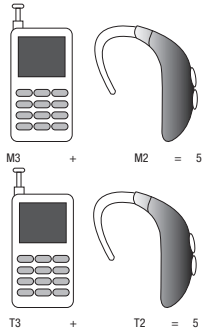
T-Ratings: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

HAC for Newer Technologies

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

Restricting Children's Access to Your Mobile Device

Your mobile device is not a toy. Do not allow children to play with it because they could hurt themselves and others, damage the mobile device, or make calls that increase your mobile device bill.

Keep the mobile device and all its parts and accessories out of the reach of small children.

FCC Notice and Cautions

FCC Notice

The mobile device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the mobile device if such interference cannot be eliminated. Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association.

Cautions

Any changes or modifications to your mobile device not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the mobile device warranty if said accessories cause damage or a defect to the mobile device.

Although your mobile device is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending, or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up in the headset and cause a small quick static electrical shock. To minimize the risk of electrostatic discharge from the headset avoid using the headset in extremely dry environments or touch a grounded unpainted metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile device, its parts, or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including installed or portable wireless equipment near or in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.
- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing games for extended periods. If you feel any discomfort, stop using the device immediately.

- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

Section 10: Warranty Information

Standard Limited Warranty

What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants that SAMSUNG's handsets and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Case/Pouch/Holster	90 Days
Other Phone Accessories	1 Year

What is not covered?

This Limited Warranty is conditioned upon proper use of the Product.

This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to liquid, moisture, dampness, sand or dirt, neglect, or unusual physical, electrical or electromechanical stress; (b) scratches, dents and cosmetic damage, unless caused by SAMSUNG; (c) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (d) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (e) ordinary wear and tear; (f) defects or damage resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (g) defects or damage resulting from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (h) defects or damage resulting from external causes such as collision with an object, fire, flooding, dirt, windstorm, lightning, earthquake, exposure to weather conditions, theft, blown fuse, or improper use of any electrical source; (i) defects or damage resulting from cellular signal reception

or transmission, or viruses or other software problems introduced into the Product; or (j) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery; (ii) any of the seals on the battery are broken or show evidence of tampering; or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's obligations?

During the applicable warranty period, provided the Product is returned in accordance with the terms of this Limited Warranty, SAMSUNG will repair or replace the Product, at SAMSUNG's sole option, without charge. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product, or may replace the Product with a rebuilt, reconditioned or new Product.

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

What must you do to obtain warranty service?

To obtain service under this Limited Warranty, you must return the Product to an authorized phone service facility in an adequate container for shipping, accompanied by the sales receipt or comparable proof of sale showing the original date of purchase, the serial number of the Product and the seller's name and address.

To obtain assistance on where to deliver the Product, please call SAMSUNG Customer Care at 1-888-987-4357. If SAMSUNG determines that any Product is not covered by this Limited Warranty, you must pay all parts, shipping, and labor charges for the repair or return of such Product.

You should keep a separate backup copy of any contents of the Product before delivering the Product to SAMSUNG for warranty service, as some or all of the contents may be deleted or reformatted during the course of warranty service.

What are the limits on SAMSUNG's liability?

THIS LIMITED WARRANTY SETS OUT THE FULL EXTENT OF SAMSUNG'S RESPONSIBILITIES, AND THE EXCLUSIVE REMEDY REGARDING THE PRODUCTS.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SAMSUNG BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE DISCLAIMER OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND DISCLAIMERS MAY NOT APPLY TO YOU.

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Nothing in the Product instructions or information shall be construed to create an express warranty of any kind with respect to the Products. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of SAMSUNG regarding the Products or this Limited Warranty.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

What is the procedure for resolving disputes?

ALL DISPUTES WITH SAMSUNG ARISING IN ANY WAY FROM THIS LIMITED WARRANTY OR THE SALE, CONDITION OR PERFORMANCE OF THE PRODUCTS SHALL BE RESOLVED EXCLUSIVELY THROUGH FINAL AND BINDING ARBITRATION, AND NOT BY A COURT OR JURY.

Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's Product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law. The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of Texas, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are $5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or $50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees. Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed $5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction.

This arbitration provision also applies to claims against SAMSUNG's employees, representatives and affiliates if any such claim arises from the Product's sale, condition or performance.

You may opt out of this dispute resolution procedure by providing notice to SAMSUNG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to optout@sta.samsung.com, with the subject line: "Arbitration Opt Out." You must include in the opt out e-mail (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable, if you have it (the IMEI or MEID or Serial Number can be found (i) on the Product box; (ii) on the Product information screen, which can be found under "Settings;" (iii) on a label on the back of the Product beneath the battery, if the battery is removable; and (iv) on the outside of the Product if the battery is not removable). Alternatively, you may opt out by calling 1-888-987-4357 no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product and providing the same information. These are the only two forms of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.

Severability

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important! Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Samsung Telecommunications America, LLC
1301 E. Lookout Drive
Richardson, Texas 75082

Phone: 1-800-SAMSUNG
Phone: 1-888-987-HELP (4357)

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